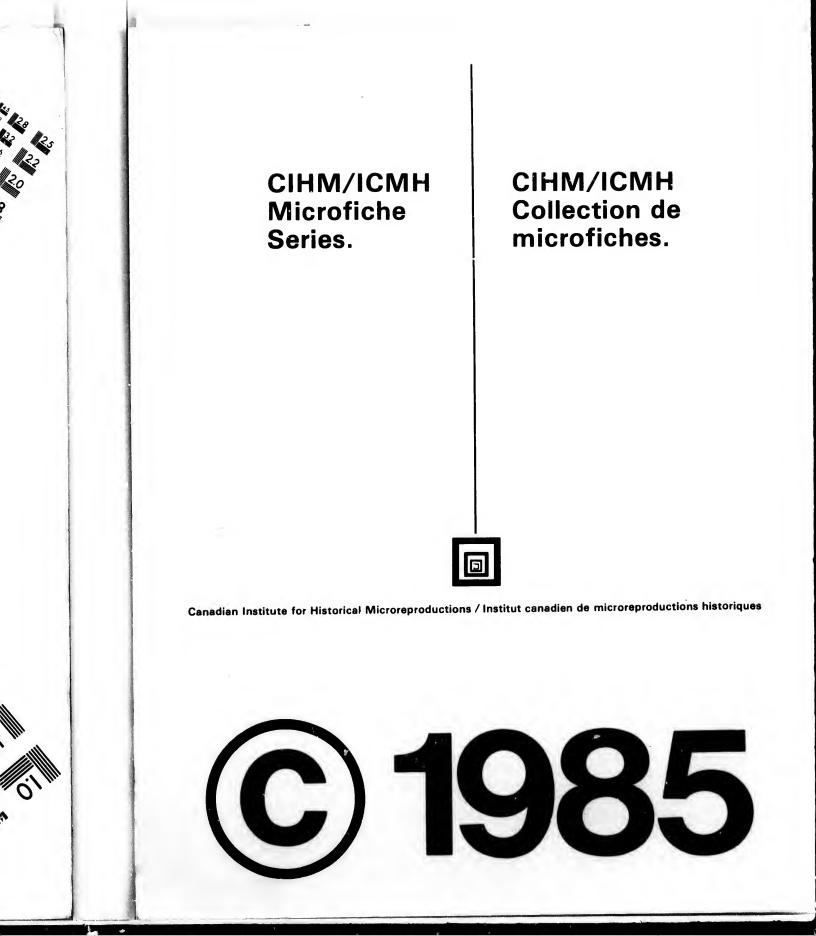


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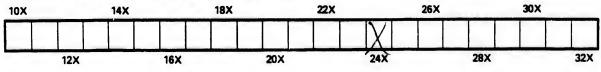


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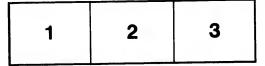
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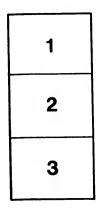
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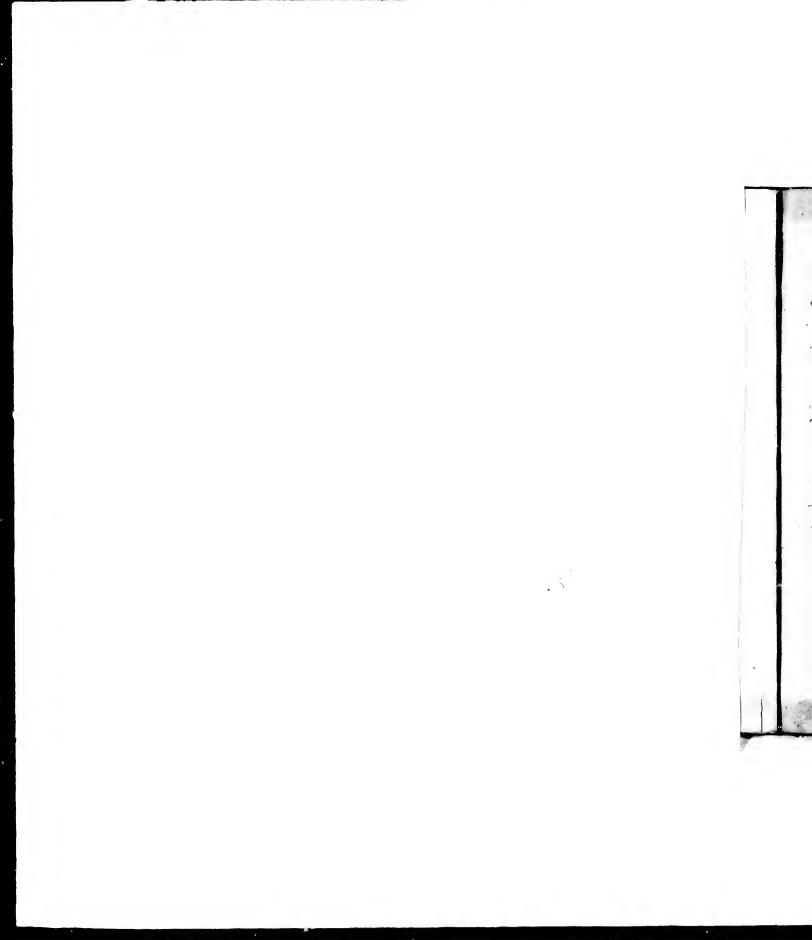
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THE BEE,

OR LITERARY WEEKLY INTELLIGENCER,

CONSISTING OF ORIGINAL PIECES AND SELECTIONS FROM PERFORMANCES OF MERIT, FOREIGN AND DOMESTIC.

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A WORE CALCULATED TO DISSEMINATE USEFUL KNOWLEDGE AMONG ALL BANKS OF PROPLE AT A SMALL EXPENCE, • **B** Y

JAMES ANDERSON, L L D.

Honorary Member of the Society of Arts, Agriculture, &c. at BATH 3 of the Philosophical, and of the Agricultural Societies in MANCHISTER 3 of the Society for promoting Natural History, LONDON 3 of the Academy of Arts, Sciences, and Belles Lettres, DIJON 3 and correspondent Member of the Royal Society of agriculture, PARIS 3 Anthor of sourcel Performances.

FOLUME ELEVENTH.

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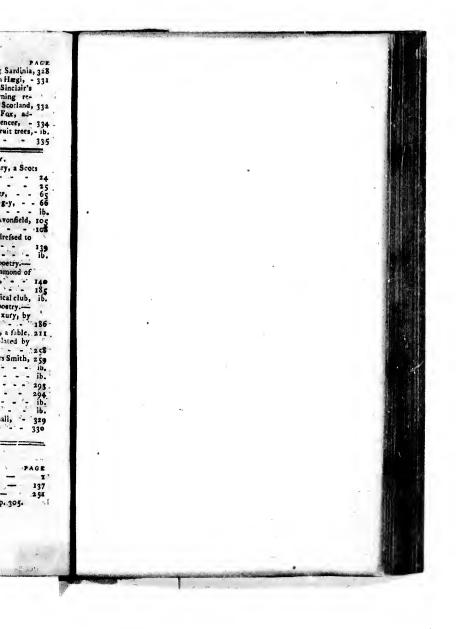
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SALTON, ONE OF THE SENATORS OF THE COLLEGE OF JUSTICE, COMMONLY CALLED LORD MILTON. With a portrait.

LORD MILTON, the faithful friend and co-adjutor of Archibald duke of Argyll, as minister for Scotland, was the son of Henry Fletcher of Salton, the immediate younger brother of the famous Andrew Fletcher, the defender of the liberty and independence of Scotland #.

* The family of Salton, Fletcher, is said to be originally from the county of Tweeddale ; that Robert Fletcher, the first of the family in Scotland, was of the Fletchers of Sufsex ; that Andrew, the son of Robert, was a merchant of aminence at Dundee, whose son David, purchased the estate of Innerpeffer, in the county of Angus, and married a daughter of Ogilvie of Ponrie, by whom he had three sons, Robert, Andrew, and David. . Robert eldest, son of the laird of Linerpeffer, succeeded to his father in the year 1597, when he bought the estate of Bencho, and other lands in . the same county, and died in the year 1613, leaving s'x sons; Andrew; James provost of Dundes ; Robert, to whom he gave Bencho; George VOL. XI. **A** :

2 memoirs of lord Milton. Sept. 5. His mother was the daughter of Sir David Carnegy of Pitarrow, baronet. and granddaughter of David, earl of Southelk; who was married to Henry in the year 1688.

Lord Milton's father, though he inherited much of the genius, vivac , and probity of his family, is not to be traced by his. public character. He was devout and studious, and attached to rural affairs.

His wife appears to have been a woman of singular merit and enterprise, for the benefit of her family, and the good of her country. She went, during the troubles in which the family of Fletcher was involved, to Holland, taking with her a mill-wright, and weaver, both men of genius and enterprise in their respective departments; and by their means the secretly obtained the art of weaving and drefsing, what was then, as it is now, commonly called *bolland* (fine linen;) and introduced the manufacture into the village and neighbourhood of Salton *.

Andrew, the eldest son of this respectable couple, ... was born in the year 1692, and educated with a view to the profession of the bar in Scotland. He was.

proprietor of the estate of Restennote in Argus; John, dean of Carlisle; and Patrick, who died abroad in the service of the states general of Holland.

David Fletcher, bifhop of Argyll, was the eldest son of Andrew, the second con of Innerpeffer. John, the immediate younger brother of the bifhop, was lord advocate of Scotland in the reign of Charles 11. whose heir James, son of the biflop of Argyll, left an only daughter Elizabeth, who was married to Sir James Dahymple of Cousland, to whom file brought the estate of Cerns on, now inherited by her grandson, Sir John Dahymple Hamilton Marg II barr.

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He was, on of Carlisle; eneral of Hol-

f Andrew, the brother of the rles 11. whose ter Elizabeth, to whom fle lsen, Sir John 1791. memoirs of lord Milton. 3 admitted an advocate on the 26th of February 1717, one of the lords of Sefsion on the 4th of June 1724, and lord justice clerk on the 21st of July 1735, which office, on being appointed keeper of the signet in the year 1748, he relinquifted.

The acuteness of lord Milton's understanding, his judgement and addrefs, and his minute knowledge of the laws, customs, and temper of Scotiand, recommended him early to the notice, favour, and confidence of Archibald duke of Argyll; and he conducted himself-during the unhappy rebellion 1745, in the important office of lord justice clerk, with so much discretion, that even the unfortunate party acknowledged, that by the mild and judicious exercise of his authority, the impetuosity of wanton punish. ment was restrained, and lenient measures adopted for the concealment, or recal, of such of the rebels as had been rather inveigled and betrayed into acts of hostility, than 'impelled by any deep laid designs to overturn the established government. He overlooked or despised many of the informations which came to his office through the channels of officious malevolence ; and after his death many sealed letters containing such informations, were found unopened in his repositories.

In the abolition of heritable jurisdictions in Scotland, lord Milton engaged with fervent zeal for the welfare of the country; and he no sooner observed the beginning of public tranquillity; than he imprefsed the mind of his illustrious patron, Archibald duke of Argyll, with brilliant designs for the promotion of trade, manufactures, improved agriculture, and

4 memoirs of lord Milton. Sept. 5. learning in Scotland. These he signally promoted by the patronage and direction of the public hark, the conventions of bcroughs, the British Linen Company; the protection of tenants in just litigation with their landlords in the court of Selsion, and the favouring of such British acts of parliament as were directed towards their security; and lastly, by the good government of the city of Edinburgh, the patron of the university, in the choice of eminent profefsors, particularly in the school of medicine.

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Nor was Milton inattentive to the police and good morals of the country, in the appointment of fheriffs, and clergymen to the crown presentations; all which, though in the immediate power of the duke of Argyll, were in a great measure recommended by lord Milton.

He strenuously promoted that excellent scheme for the provision of the widows and children of the clergy; which does so much credit likewise to the memory of Dr Webster, and that of the learned and good Maclaurin, who instituted the calculation, which has stood the test not only of Dr -Price's strictures, but of more important experience.

It is pleasing to record with honour the names of illustrious and worthy compatriots; and the writer of this little memorial has scarce ever affected any other ambition than that of being the herald and seneschal of the fame of his deserving countrymen.

It would be a tafk worthy of well informed leisure, to fill up the chasms of this slight fketch with a succinct account of the progrefsive improvements in Scotland, from the beginning of Milton's the: age I that spir And of th a tr ther sub the I ofin and shou whi is p stri app s A_s

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names of e writer ected any d and seymen. informed ht fketch improve-Milton's 1792. on the raper. 5 career, till his death on the 13th of December 1766, the most rapid (perhaps) that ever took place in any age or country.

I cannot conclude this memoir, without observing that Milton, at the age of seventy, with all the vigour, spirit, and political rectitude of his excellent uncle Andrew Fletcher of Salton, entered into the support of the proposal for a Scotch militia, with the zeal of a true patriot; and wrote an excellent letter to the then minister, Mr Grenville, which ought to be yet subjected to the consideration of his succefsors and of the country.

It is indeed truly astonishing, that the descendants of men who fought under the banners of Wallace and Bruce, and wrote the famous letter to the pope, should not aspire after the same honour and security which is enjoyed by Englishmen. An honour which is possessed by the Prussians and the subjects of the strictest monarchies on the continent. Pudet bac approbria nobis, et dici potuisse et non potuisse refelli. A. B.

ON THE VIPER.

SIR, To the Editor of the Bee.

As I am one of your constant readers, I have frequently observed in your most industrious Bee, some extracts from the natural history of insects and animals, with which a great many of your readers are unacquainted. The reptile which is to be the subject of this letter, is known to a great many in this kland; but I suppose very few know the way and

6 on the viper. Sept. 5. manner by which the species is propagated; I shall, therefore, inform you of what came lately to my knewledge of the viper or adder.

About twelve months ago, an honest labouring man in this place, while at his work, observed some-. thing lying on the side of a road, of which he at first took little notice ; but soon after having occasion to pafs that way, observed it was not in the same place where he saw it at first, which raised his curiosity to take a more narrow inspection of it; when, to his great surprise, he found it to be an adder, of about two feet three inches in length; the fkin of which was so thin that he plainly saw some living creatures moving within it. He by some means broke the fkin, out of which came several thousands of young adtiers, rather more than one inch in length, with black heads, the back a whitish brown, the belly more inclined to white and clear. Having made these observations, he immediately dispatched them, in case they fhould have spread abroad in the country. When he came home, and told his story of what he had seen, some believed him, and others not, saying they had been maggo .s he had found in the fkin of the adder. And so there was no more about it, until a few days ago, when a young man found, nearly in the same place, several thousands of the same kind of creatures, and nearly of the same size and colour, marching along a road, but no fkin was to be seen. near by them. From which I infer, that when they come to a certain size, they eat themselves out of it, and begin their journey. As they were within two or three feet of some long grafs, and about ten yards 179 fron ther so 1 in s som be s told four orde V man mu sm3 the 1 was incl

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1792. from water, the man that found them stood by them lest they flould go away among the grafs, and so lose sight of them, until another young man came in sight, whom he called to him, that he might fetch something to carry them home in, that they might be seen before they were descroyed. He came and told me, and I willingly went along with him, and found them all marching forward in a determinate order upon the road.

What took my attention most, was their order of marching ;--- they kept so close together that they very much resembled the fhape of a large adder, being smaller at the head, and thicker in the middle, from thence tapering all the way to the other end.

They moved straight forward: the aggregate body was about one inch broad in their ranks at the head, one inch and one half in the middle, from thence smaller to the tail. They were about sixteen inches in length, and I think they would be about three quarters of an inch in depth, so that there was a great many creeping one above another, somewhat resembling a swarm of bees going up into the hive. I likewise observed when they met with any obstruction, such as a small stone, that they would all turn to one side of it; or if they divided their course they joined again as soon as they were past the cause of it. There seemed to be some wettilh stuff amongst them ; for when I separated a few from the main body, the dust stuck to them, and they could not creep but with great difficulty; however, they seemed to guard against that by keeping so closely together.

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I send you inclosed a few of the young creatures that you may see them yourself, only I am afraid by the time you receive them they will be so dry, you will not be able to judge of them properly.

I would be much obliged to you, and, I dare say, so would a great many of your readers, if you were to give us some information through the channel of your Bee, how the species is propagated, and what method nature, or rather its author, has taken to prevent them increasing so fast ; for I have heard so many stories about them that I give little heed to any of them. If you were to add the best remedy to . prevent the fatal effects of their sting, it would make it both useful and entertaining. As this is about the time the bees begin to lay up their honey for winter, I should think myself very happy could this letter only supply the place of coarse wax, to contain the more sweet and precious treasure. I commit it to your disposal if you think it worth the insertir. I hope you will be so good as amend all inaccuracies in the writing which you may find it. If Lot I humbl af: m

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ed of an th th wi th . • sev ting the dist т the writ is k con had .der, four ken I of (men sam be a very F tive whe Sept: 5. em, I carried e, until they old ones, and ne dry earth se curse pro-. They soon id and round I was out of it the safest farther dan-

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ders, if you h the chanpagated, and r, has taken have heard ittle heed to remedy to would make is about the for winter, this letter contain the ommit it to insertir. I naccuracies Lot I hum1792. on the viper. 9 bly submit myself to your superior judgement. De alsured, however, that I am, Sir, the constant admirer of your writings and publications.

G. R. H.

P. S. Although I have once or twice called them young adders in this letter, yet I am no way confirmed in my opinion that they really are so. Their order of marching makes me think they were not maggots; and it is not agreeable with the natural history of the viper to suppose they increase so fast; I fhall. therefore wait for your opinion of them, which will be gratefully received. I have mentioned all the particulars I observed about them^{*}.

• Along with the above was received by the Editor in a separate paper, several dried small animals, to appearance. One end was clearly distinguifhable from the other, by a small black dot, which is supposed to be the head, the rest was so much firivelled up in the drying as not to be distinguifhable.

The phenomenon here described is certainly very uncommon, and deserves the atten ion of the curious. That it was a nest of young vipers, as the writer evidently suspected, seems not to be very probable. The viper is known to be a viviparous animal, and produces its young nearly in the common way, in as far as I have been able to learn. I never myself had an opportunity of making any observations on the common adder, but a geatleman to whom I fluewed the above, afsurd me, he had seen four or five young ones, about three inches long, and perfectly active, taken out of the body of an adder that was killed.

It is probable some of my country readers may have had opportunities of observing the adder while with young, in various degrees of advancement; and it is also possible that some of them may have remarked the same appearance that has been described by this correspondent, and may be able to throw some light upon it. Any elucidations un this head will be very acceptable.

Fiftes that are generated from spawn, are, I believe, the most productive of all animals ; and these sumetimes attach themselves to one another, when young, very closely in fhoals, somewhat resembling the phenomenes VOL. Xi. B †

discoveries in Africa. Sept. 5.

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DISCOVERIES IN THE INTERIOR PARTS OF AFRICA.

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The afsociation instituted for promoting discoveries in the interior parts of Africa, of whose labours some accounts were given in the Bee, vol. i. p. 15 and 96, continue with unremitting ardour in their pursuits; and have lately printed, for the use of the subscribers only, an account of a continuation of their discove-

here described. I had once occasion to observe a circumstance of this sort myself, respecting ecls, which being curious, and nothing of the same sort taken inotice of in any natural history of that animal I have seen, I thall briefly state for the satisfaction of the reader.

MIGRATION OF BELS.

Having occasion to be once on a visit at a friend's house on Dec-side in Aberdeenthire, I often delighted to walk by the banks of the river to mark the phenomena that occurred. I soon observed something like a long black string noving along the edge of the river in fhoal water. Upon closer inspection I discovered that this was a fhoal of young eels, so closely joined together, as to appear, on a superficial view, one continued body, moving brickly up against the stream. To avoid the retardment they experienced from the force of the current they kept close along the water's edge the whole way, following all the bendings and sinusarities of the river. Where they were embayed, and in still water, the fhoal dilated in breadth, so as to be sometimes near a foot broad, but when they turned a cape, where the current was strong, they were forced to occupy lefs space, and prefs close to the fhore, strongling very hard till they pafaed it.

This fhoal continued to move on without interruption night and day for several weeks. Their progrefs might be at the rate of about one mile in the hour. It was easy to catch as many of the animals as you pleased, though they were very active and nimble. They were eels perfectly formed in every respect, but not exceeding two inches in length. I coneeive that the fhoal did not contain, on an average, lefs than from twelve to twenty in breadth, so that the number that pafsed, on the whole, during their progrefs, must have been very great. Whence they came or whether they went I know not. The place I remarked them at was six miles from the sea. And I am told the same plenomenon takes place there every year about the same season. Edit.

Sept. 5.

AFRICA.

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on Dec-side f the river to thing like a water. Upyoung cels, one continuthe retardt close along d sinuesities the fhoal dil, but when orced to ocard till they

ght and day nut one mile you pleased, ils perfectly gth. I confrom twelve whole, duhey came or them at was nenon takes *Edit*. 1792. *discoveries in Africa.* 11 ries since the former publication; with a sight of which the Editor having been favoured, he makes haste to lay before his readers an abstract of the important discoveries it contains.

It seems perfectly astonithing that Africa, the northern parts of which are almost at our very door, should have remained for so many centuries so totally unknown to the natives of Europe. It now appears that the vast tract of country which liesbehind the kingdom of Morocco, that has hithertobeen deemed a steril and inflospitable desart, which geographers had no other way of delineating but by inserting figures of elephants, and other wild beasts, in their maps, is, in many places, a rich and fertile country, abounding with people who are no strangers to industry and arts, and considerably advanced in civilization and refinement of manners.

By the former publication of this society, the public were made acquainted with the singular conformation of that extensive district in the northern parts of Africa, which hath hitherto been denominated Zaara, or the desert, which exhibits appearances not more novel to the naturalist than interesting to the philosopher. It may be called a vast sea of sand, having islands interspersed through it, which abound with the richest productions of the vegetable kingdom, and are inhabited by various tribes of people in different degrees of civilization, and carrying on with each other an expensive and precarious trails, not by means of fhips, but by caravans of camels, which are sometimes overwhelmed in billows of sand, and sunk into endlefs oblivion.

Sept. 5. discoveries in Africa. 12 Beyond this district, which is only habitable in those spots where springs abound on the surface, and where of course the sands are either entirely interrupted, or of small depth, and which we have compared to islands, it now appears, that another district, consisting of firmer materials, begins in which mountains arise in various directions, that produce rivers of great magnitude, which not only add fertility to the country, but facilitate the commerce of those numerous tribes of people who inhabit their borders. This fertile zone, besides smaller streams, is watered by the Senegal, the Gambia, the Niger, and the Nile. Part of this district forms the subject of the present publication ; and the discoveries respecting it are already great and highly interesting; but hitherto only a small part of it has been imperfectly explored. The internal parts of that immense tract of country, which extends from the Niger southward to Caffraria, remains yet to be investigated, and will furnish many future memoirs from a society which promises to add much more to the sum total of human knowledge, than was expected when it was first instituted. May they continue steady in their pursuits, and be as fortunate as they histerto have been, in finding men calculated for engaging in the arduous talk of discovery !

The public have already heard some surmises of the existence of a large town on the banks of the Niger, called Houlsa, which seemed to be so wonderful, and it appeared so implicible that a place of such magnitude as it was represented to be, could have so long been totally unknown in Europe, if ha far ab be wo giv ba att lat yea ext ru as vei of cer be and 211 the tio tha tha the

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Sept. 5. bitable in rface, and ely intere compar district, in which t produce add fertinmerce of habit their r streams, the Niger, is the subliscoveries y interestt has been ts of that s from the t to be ine memoirs uch more an was exthey confortunate calculated ery ! urmises of nks of the so wonder-

nks of the so wondera place of o be, could Europe, if 1792. discoveries in Africa. such a place there had been, that it

such a place there had been, that its existence was doubted by many. It now appears undeniable that such a place dors actually exist. The circumstances that have led to this conclusion, and the steps that have been taken for extending our discoveries still farther in Africa, will be learnt from the following abstract of the publication of the society, which shall be given, as much as our limits will admit, in the words of the ingenious compiler of this account.

13

An Arab called Shabeni had, two years ago, given to the society an account of an empire on the banks of the Niger, which strongly attracted the attention of the society. He said ' that the population of HoussA, its capital, where he resided two years, was equalled only (as far as his knowledge extended) by that of London and Cairo: and in his rude unlettered way, he described the government as monarchical, yet not unlimited; its justice as severe, but directed by written laws; and the rights of landed property as guarded by the institution of certain hereditary officers, whose functions appear to be similar to those of the *Canongoes* of Hindostan, and whose important and complicated duties imply an unusual degree of civilization and refinement.

• For the probity of their merchants, he expressed the highest respect; but remarked, with indignation, that the women were admitted into society, and that the honour of the hufband was often insecure.

⁶ Of their written alphabet he knew no more than that it was perfectly different from the Arabic and the Hebrew characters; but he described the art of writing as common in Houfsa. And when he acted

14 discoveries in Africa. Sept. 5the manner in which their pottery is made, he gave, unknowingly to himself, a representation of the Grecian wheel.

• In paising from Houfsa to Tombuctoo, in which last city he resided seven years, he found the banks of the Niger more numerously peopled than those of the Nile, from Alexandria to Cairo; and his mind was obviously imprefeed with higher ideas of the wealth and grandeur of the empire of Houfsa, than those of any other kingdom he had seen, England alone excepted.

⁴ The existence of the city of Houlsa, and the empire thus described by Shabeni, was strongly confirmed by the letters which the committee receivedfrom his majesty's consuls at Tunis and Morocco, and with this additional circumstance of informationfrom them, that both at Tunis and Morocco, the eunuchs of the seraglio were brought from the city of Houlsa.

⁴ Anxious to investigate the truth of these accounts, and impatient to explore the origin a course of a river that might possibly open to Britain a commercial passage to rich and populous nations, the committee embraced the proposals which the ardour of a new missionary offered to their acceptance. For major Houghton, who was formerly a captain in the 69th regiment, and in the year 1779 had acted under general Rooke as fort major, in the island of Goree, expressed his willingness to undertake the execution of a plan, which he heard they had formed, of penetrating to the Niger by the way of the Gambia.

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1792. discoveries in Africa.

15 His instructions, accordingly, were to ascertain the ourse, and, if possible, the rise and termination of that mysterious river; and after visiting the cities of Ton.buctoo and Houfsa, to return by the way of the desert, or by any other route which the circumstances of his situation at the time fhould recommend to his choice."

This new missionary is thus characterized in a succeeding part of this publication. ' The obstacles he has surmounted, and the dangers he has escaped, appear to have made but little impression on his mind; a natural intrepidity of character, that seems inaccessible to fear, and an easy flow of constitutional good humour, that even the roughest accidents of life have no power to subdue, have formed him, in a peculiar degree, for the adventure in which he is engaged : and such is the darkness of his complexion, that he scarcely differs in appearance from the Moors of Barbary, whose drefs in travelling he intended to afsume.'

This adventurous traveller left England on the 16th October 1790. He arrived at the entrance of the Gambia on the 10th of November, and was kindly received by the king of Barra, who remembered the visit the major had formerly paid to him from the island of Goree; and who now, in return or a small present of the value of L. 20, chearfully tendered protection and afsistance as far as his dominions or influence extended.

He proceeded up the river to Juniconda, where he purchased a horse to go by land to Medina, the ca-

16 discoveries in Africa. Sept. 5. pital of Woodi, where he was kindly and hospitably received.

' The town of Medina,' he says, ' is situated at the distance of about 900 miles, by water, from the entrance of the Gambia; and the country adjacent abounds with corn and cattle; and, generally speaking, in all things that are requisite for the support, or efsential to the comfort of life.'

In a letter from this place to his wife, major Houghton, ' delighted with the healthinefs of the country, the abundance of the game, the security with which he made his excursions on horseback, and above all, with the advantages that would attend the erection of a fort on the salubrious and beautiful hill of Fatetenda, where the Englifh once had a factory, he expresses his earnest hope that his wife will hereafter accompany him to a place, in which an income of ten pounds a year will support them in affluence; and that the will participate with him in the pleasure of rapidly acquiring that vast wealth which he imagines its commerce will afford.'

His prospects however were, for the present, suddenly blasted. A fire consumed almost all his treasures, together with a great part of the town. His interpreter ran off with his cavalry,—a trade gun which he had purchased in the river, br.st in his hand, and wounded him severely,—yet not succumbing, he proceeded for Bambouk, in company with a slave merchant, 'on the eighth of May, by moonlight, and on foot, with two afses, which the servant of the slave merchant offered to drive with his own, and which carried the wreck of his for-

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esent, sudl his treaown. His trade gun trast in his not succompany f May, by which the drive with of his for***792.** discoveries in Africa. **17** tune; and journeying by a north-east course, arrived on the fifth day at the uninhabited frontier which separates the kingdoms of Woolli and Bondou.

⁴ He had now passed the former limit of European discovery, and while he remarks with pleasure the numerous and extensive population of this unvisited country, he observed that the long black hair, and copper complexion of the inhabitants announce their Arab origin.'

After a journey of 150 miles, he reached the banks of the Falemé, the south-western boundary of the kingdom of Bambouk. Its stream was exhausted by the advanced state of the dry season, and its bed exhibited an appearance of slate intermixed with gravel.

⁶ Bambouk is inhabited by a nation whose woolly hair and sable complexions bespeak them of the negro race, but whose cnaracter seems to be varied in proportion as the country rises from the plains of its western division to the high lands on the east. Distinguished into sects, like the people of Woolli and Bondou, by different tenets, of Mahommedans and Deists, they are equally at peace with each other, and mutually tolerate the respective opinions they condemn.

• Agriculture and pasturage, as in the negro states on the coast of the Atlantic, are their chief occupations; but the progrefs which they have made in the manufacturing arts is such as enables them to smelt their iron ore, and to furnish the several instruments of hufbandry and war; cloth of cotton on the other hand, which on this part of Africa seems vol. xi. c †

18 discoveries in Africa. Sept. 5.. to be the universal wear, they appear to weave, by adifficult and laborious procefs.'

The common food of the people is rice. They make a kind of fermented liquor from honey.

He was here pillaged of a great part of his small remaining stores by the king of Bondou, who had just terminated a succefsful war, by which he acquired a considerable part of the dominions of the king of Bambouk. This calamity the latter ascribed to the French, with whom he traded from Senegal, having neglected to supply him with gunpowder and military stores; while the Englifh with whom his enemy dealt, had been regularly supplied with those articles from the Gambia.

He afterwards proceeded with great difficulty to Ferbanna the capital of the singdom of Bombouk, situated on the eastern side of the Serra Coles, or river of gold, where he was kindly entertained. He there made an agreement with a respectable merchant of Bambouk, who offered to conduct him on horseback to Tombuctoo, and to attend him back to the Gambia. The king gave him at parting, as a mark of his esteem, and a pledge of future friendship, a present of a purse of gold.

'With an account of these preparations the major closes his dispatch of the 14th of July; and as the society are informed by a letter from Dr Laidley, his correspondent on the Gambia, that on the 22d of December no later advices had been received, thereseems the strongest reason to believe that the major descended the eastern hills of Bambouk, and proceeded on his road to Tombuctao.'

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fficulty to nbouk, sis, or river He there erchant of horseback the Gamu mark of ip, a pre-

the major und as the Laidley,. he 22d of red, therethe major . proceed1792. discoveries in Africa. 19 Such are the outlines of this interesting journal. The elegant writer of this publication thes remarks on the information obtained from him :

' The journey of major Houghton from the Gambia to the kingdom of Bambouk, has enlarged the limits of European discovery; for the intermediate kingdom of Bondou was undescribed by geographers: and the information he has obtained from the king of Bambouk, as well as from the native merchants with whom he conversed, has not only determined the course, and shewn, in a great degree, the origin of the Niger; but has furnished the names of the principal cities erected on its banks ; fortunately, too, the accounts which he has thus transmitted, are strongly confirmed by the intelligence which his majesty's consul at Tunis has collected from the Barbary merchants, who trade to the cities of Tombuctoo and Houisa, and whose commercial connections extend to the highest navigable parts of the Niger. 'Nor is this the only advantage for which the committee are indebted to the public spirit and indefatigable zeal of consul Magra; for the specimens of the vegetable productions of the countries on the south of the desert, which the acquaintance he has cultivated with the conductors of the caravans has enabled him to seud to the committee, afford a satisfactory proof that the account which their printed narrative, on the authority of Shereef Imhammed, has given of several of those productions, is faithful to the objects it describes. And the relation he has transmitted of the routes from Tunis to Ghedesmes, and from thence to Cashna and Tombuctoo, have fur-

20 discoveries in Africa. Sept. 5. nifhed important materials for elucidating the geography of the desert.

⁶ But though we have now afsurance that the Niger has its rise in a chain of mountains which bound the eastern side of the kingdom of Bambouk, and that it takes its course in a *contrary* direction from that of the Senegal and the Gambia, which flow on the opposite side of the same ridge, yet the place of its final destination is still unknown; for whether it reaches the ocean, or is lost, as several of the rivers of mount Atlas are, in the immensity of the desert; or whether, like the streams of the Caspian, it terminates in a vast inland sea, are questions on which there hangs an impenetrable cloud.

⁴ From a paisage in Eschylus, in which Prometheus relates to Io the story of her future wanderings, there is reason to believe that some of the ancients imagined the river Niger to be the southern branch of the Egyptian Nile, which others represented as rising in the hills, to which they gave the fanciful name of the mountains of the Moon. The pafsage from Eschylus, as translated by Potter, is expressed in the following words:

> " ______Avoid the Arimaspian troops. ______Approach them not, but seek A land far distant, where the tawny race Dweil near the fountains of the sun, and where The Nigris pours his dufky waters ; wind Along his banks till thou fhalt reach the fall, Where, from the mountains with papyrus crown'd, The venerable Nile impetuous pours His headlong torrent; he fhall guide thy steps To those irriguous plains, whose triple sides His arms surround; there have the fates decreed Thee and thy sons to form the lengthen'd line."

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1792.

discoveries in Africa. • The accounts received by the committee, of the probable facility of opening a trade from great Britain to the various cities on the Niger, encourage a belief that the inland regions of Africa may soon be united with Europe in that great bond of commercial fellowship which the mutual wants and different happily established. Much, undoubtedly, we thall have to communicate, and something we may have to learn: for the merchants of Barbary afsert that the people of Houlsa have the art of tempering their iron with more than European skill; and that their files in particular are much superior to those of Great Britain and France.

21

' To what degrees of refinement the unmeasured length of succefsive generations may have improved their manufactures; or to what arts, unknown and unimagined in Europe, their ample experience may have given rise, the ne a dispatches from major Houghton may probably disclose. That in some of these insulated empires the knowledge and the language of ancient Egypt may still imperfectly survive, is not an unpleasing supposition : nor is it absolutely impossible that the Carthagenians, who do not appear to have perished with their cities, may have retired to the southern parts of Africa; and, though lost to the world in the vast oblivion of the desert, may have carried with them to the new regions they occupy, some portion of those arts and sciences, and of that commercial knowledge, for which the inhabitants of Carthage were once so eminently famed.'

22

Sept. 5.

MORAL REFLECTIONS.

moral reflections.

To the Editor of the Bee, by Mira.

THERE is a point beyond which the human mind cannot suffer, and there are also bounds, beyond which human calamity cannot extend. Reflect, my beloved friend, with humble gratitude; reflect how far you are yet from reaching the verge of that frightful gulph. Reason, religion, friendship, and conscious rectitude, are yours; open your heart to those consolations which these supply; and above all, let the consideration of the fhortnefs of life mitigate the severity of its sufferings, and the afsured hope of that which is to come, teach you to rise superior to them; seek relief from that Being, who, in times of extremity, often brings us unhoped deliverance, and is alike powerful and willing to afsist those who put their trust in his aid. It is by awful dispensations, and in hours of peculiar darkness, that the Almighty teaches his feeble creatures, to raise their eyes from second causes, and what they call fortuitous events, to Him, the great first Cause and supreme Governor of the universe. It is then their virtues are made perfect by discipline,-that their faith triumphs over the world : it is then the most enlightened of the human race are brought to a feeling sense of their own ignorance, that with humility they adore what they cannot comprehend, and cry out, Man is error and ignorance ! Being of beings have mercy upon us !

Ah why has heaven condemn'd me to sustain This grief, for ills 1 never can relieve; Why must 1 only weep the wretches' pain, Prove the warm will, yet want the pow'r to give; 1.792.

Sept. 5.	1792.	poetry.	23	0
		Why mark frue merit immaturely fade, Uncherithed, unprotected and unknown;		
		Lost in obscurity's remotest mane,		
		The buds of genius blasted soon as blown ! Why must I see unpitied, unredrefs'd,		
		The cruel injuries of wanton pow'r;		
mind can-		Forc'd tu conceal the anguith of my breast,		1 18.9 1
nd which		Denied to succour whom I most deplote! Yet he ven can withefs I ne'er with'd for wealth,		
y beloved		Nor the gay tollies of a foreign land;		
w far you		Ne'er sacrific'd to pleasure, peace and health, Nur indolence prefeir'd to useful toil;		
frightful		Mine was the wifh, far from the world to plan		
0		The moral tale, instructive of my kind;		1. 新教教教
conscious		To point the best pursuits of social man, And form by stealth the uncorrupted mind;		11月1日
hose con-		Unnotic'd to convey the prompt supply,		
l, let the		To cheat dull poverty's obscure abode; To read the language of the grateful eye,		
te the se-		Catch the warm praise, and point as due to God;		
pe of that		Of youth the kind affections to engage, To nourah tander infancy with bread;		
to them;		With kind compatision cherifh feeble age,		
of extre-		And give the cordial which i yet may need.		
e, and is		Yet say is happinefs to wealth allied, Had Heaven so will'd, it ne er had been afsign'd,		
		To gratify the with of pamper'd pride,		
who put		Or work the purp se of th' invidious mind. Hence vain complaints; hence and be heard no more!		
ensations,		Heaven's wo d'rous plan, to Heav'n is only known;		
Almigh-		Perhaps endowd'd with affluence and pow'r, That insolence I hate had been my own;		
neir eyes		With pleasure circled, and secure from fear,		
ortuitous		Perhaps a stranger to each softer tie		
supreme		I ne'er had known compatision's cordial tear, The thou and cordial sweets of sympathy.		
r virtues		Though wealth by providence has been deny'd,		
eir faith		Fair is my lot, no siggard blifs is mine; For I can heal the wounds of hunest pride,		
		And teach revenge its purpose to resign;		
most en-		Can cherifh modest merit with applause,		
a feeling		With kindnefs southe the apprehensive mind ; Can plead with boldnefs virtue's injur'd cause,		
humility		Or hide the frailties of my feeble kind:		1 march
and cry		And oft the anguish of the bursting heart, The gentle voice of friendship will restrain;		
f beings		A mite to indigence will joy impart,		
		A pitying sigh some respite give to pain, A cheerful tale deceive the weight of years,		
		A doubtful hope, the trembling tear suspend,		
		A welcome look dispell a lover's fears.		
e;		A simple sonnet please a partial friend.		
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24	poetry, Sept. 5.
	And these are mine, now I these gifts dispise, Eternal power, to whom each gift I owe,
	With-hold even from my prayers the means of vice, Nor let my with fulfill'd procure my woe. MIRA.
	TAK TENT AND BE WARY.
	A SCOTS SONG NEVER PUBLISHED BEFORE.
	· · ·
	' Нен! lafs, but you're canty and vogie ! ' Wow but your cen look pawky and roguie !
	"What was ye dooing in yonder green bogie,
	" Up in this morning sae airy and grey ?"
	" I've been wi' someboddle, what need ye to speer?
	" I've been wi' young Jamie,—I've been wi' my dear! God save me! my mither will mifs me, 1 fear :
	"D'ye ken lafs he's courting me a' the lang day !" 11.
	• O Kate I tak tent' and be warie;
1	 Jamie's a sad anc! he never will marry: Think o' poor Tibby !—he's left her to carry
	"Black burning shame till the day that she die !"
	" I carena for Tibby,-a glaiket young quean!
	"Her gaits wi' the fallows, we a' ken lang syne ; "The heart o' my laddie I never can tyne,
	"He promis'd to marry me down on yon lea!
	" O no! I need nae be warie;
	"Yes, yes! he means for to marry;
	"Wi' muny sweet kifses he ca'd me his dearie, "And swore he wad tak me before beltan day !"
	• O Kate, Kate! he'll deceive ve,
	" (The deil's in the cheil! he does naithing but grieve me,)
	 He's fu' o' deceit, gin ye like to believe me, The fause loon last night said the same thing to me.
	"" Dear Jean hut you're unco camstrarie,
	" Ye'll ne'er let a boddie trou ever they'll marry;
	"Ye've now gi'en me something that's no light to carry;
	• • * Twill lie at my heart till the day that I die !" She gaid awa sighing,—fhe gaid awa wae ;
	Her mither flet sare, for her biding away;
	She sat down to spin,—ne'er a word could fhe say, But drew out a thread wi' the tear in her ee !
	But drew out a thread wit the tear in her ee i
	" O yes! 'tis time to be warie;
	" Jamie's a sad ane, he never will marry;
	"He may rise in the morning, and wait till he's weary, "He's no see my face this year and a day."
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Sept. 5.

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poetry. She raise wi' the lav'rock,—the milktd her cow; She sat down by her leglin, and 'gan for to rue; Young Jamie came by,—her heart lap to her mou, And the trow'd ilka word that the fause luon did say.

O dear how lafses will vary ! Sometimes they're doubtfu', 'tis then they are warie; But when ' love comes louping,' they ay think we'll marry, And trust like poor Kate to what fause loons will say.

POMPEY'S GHOST.

r. From joys complete without allay, And from a spring without decay, I came by Cynthia's borrow'd beams, To visit my Coraelia's dreams, And bring them still sublimer themes.

And bring them still sublimer themes. II. I am the man you lov'd before These streams had wafn'd away my gore, And Pompey now fhall bleed no more; Nor thall my vengeance be withstood, Nor unattended by a flood Of Roman and Egyptian blood. III. Cæsar, himself, it thall pursue, His days fhall troubled be, and few, And he fhall fall by treason too; He, by a justice all-divine, Shall fall a victim at my fhrine; As I was hus he fhall be mine. IV.

As I was his he shall be mine. IV. Thy troubled life regret no more, For fate will waft thee soon ashore, And to thy Pompey thee restore; Where guilty leads no crowns shall wear, . Not my Cornelia shed a tear, Nor Cæsar be dictator there.

ť VOL. xi. D

25

26 on the Highlands. Sept. 5. laws lanc and AN ENQUIRY INTO THE EFFECT THAT THE SALT LAWS PRODUCE bee ON THE REVENUE IN SCOTLAND. ring HAVING flowed, Bee vol. viii. p. 150 & 192, and vol. x-Brit the p. 297, to what an intolerable degree the salt laws operate in retarding the industry of the people of Scotland, drai I shall now proceed to enquire in what manner they affect acce the national revenue. thus The total net produce of salt duties in Scotland, accor-Bou ding to Sir John Sinclair's account of the revenue, ap-Pre pears to be for the whole of Scotland, anno 1789 *, То L. 9293 : 10: 11-S By the third report of the committee of parliament, on f fisheries, it appears, that in the counties of Argyll, Inver-Ad

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nefs, Sutherland, Caithnefs, Orkney, Shetland, Nairn, and Cromarty, the account of customs stood thus, for the average of ten years preceding 1784. Grofs annual produce, - - - -L. 5073 12 0

Expence of collecting, including custom-

house cruizers for that part of the island, - - - - -10,105 10 11

Payments exceed the produce +, - L. 5031 18 11 So that government pays nearly twice as much as it draws in these counties, on the single branch of customs; and a defalcation of revenue to the amount of more than five thousand pounds a-year is incurred. The excise account is little different.

But this is not the whole of the lofs incurred by the revenue on account of the salt laws. Because of these

· History of public revenue, part iii, p. 344-

+ Account of the present state of the Hebrides, Introduction, p. 65.

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land, accorevenue, apno 1789 *,

rliament, on gyll, Inver-Nairn, and us, for the

5073 12 0

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5031 18 11 s it draws in ; and a dee than five ise account

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tion, p. 65.

on the Highlands. 27 1792. laws, it has been shown, that the fisheries among the islands, and the trade in fifh, has been entirely precluded; and in order to have any fifheries at all, government has been obliged to grant bounties for vessels fithing for herrings, and a debenture on the exportation of these from Britain; neither of which would have been necessary had the trade in salt and fifh been perfectly free. These two drains from the revenue must therefore be deducted. This account on an average of years preceding 1783, stands thus :

Bounties paid on busses in Scotland *, L. 14,08.	1 15	0
Premiums on exportation +, 605:	1 1 1	10
To which must be added, premiums for		
Scotch herrings, and hard fifh exported		
from England, supposed to be about, 2000	0	Э
Add also the annual loss on the customs,		
as above, 503	r 18	11
Add farther the premiums granted by the society for encouraging fisheries in		
Scotland, at least, per annum, 2004) 0	٠
Total outgivings, 29,16	55	9
From that deduct the net proceeds of		
the salt duties, 929	3 10	1
Outgoings exceed the incomings, - L. 19,87		

So that the revenue sustains a clear annual lofs of nearly twenty thousand pounds a-year.

This, however, is only a small part of the loss; for when the matter is fairly investigated, we ought to advert, not only to the net lofs that is annually sustained; but to that ought to be added the net revenue which would accrue to the state, were these people put into such a situation as

· See third report of the committee of fiftheries, Appendix, No. 4. † Ibid.

28 on the Highlands. Sept. 5. to enable them to be in as prosperous circumstances as other parts of the country, so as to pay taxes in an equal proportion.

There are at least 500,000 inhabitants in those countes of Scotland above enumerated, who, instead of paying takes to the exchequer, actually draw a considerable sum from it.

Suppose that in the whole of England, and the remaining parts of Scotland, there are eight millions of people.

These eight millions of people yield at present a free revenue of more than sixteen millions to the exchequer.

Of course, at the same rate, this half million ought. if they were in equally prosperous circumstances, to pay one million of free taxes into the exchequer.

At this rate it is obvious that government loses an annual revenue of about L. 1,030,000 for the sake of obtaining an annual income of lefs than L. 10,000 only. Can any conduct be more irrational, were humanity entirely out of the question !!

Neither is this the whole of the lofs that revenue sustains. If the same system be persisted in, emigrations from these countries must continue to increase; the number of people there must annually diminist ; and with it, the present strength of the country be impaired, and its future resources be cut off.

But fhould this opprefisive system of legislation be abandoned, and the people put into easy circumstances, their numbers would rapidly increase. In a flort time, instead of a half, there would be a whole million of inhabitants, yielding a revenue of at least two millions, which might soon increase to a degree that no person can at present form an idea of.

Let us not think that these ideas are chimerical. Spain, in the time of Augustus, contained *fifty* millions of . \$79 peo the eigh vin per two nur lan unf par Th en. a ra mo of poj "] dai wh and inł pai zel squ the \mathbf{Pr} suc ha to ca ŧh

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Sept. 5. mstances as in an eriual

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al. Spain, Illions of x792. on the Highlands. 29 prople. In consequence of a succession of absurdities in their system of legislation, they are diminished now to eight. And, by an opposite management, the United Provinces, which, at the first mentioned period, contained not perhaps two thousand inhabitants, contain now more than two millions.

Some will object to the possibility of ever sustaining a numerous population in the Highlands and Isles of Scotland. The soil, they will tell you, is poor, and the climate unfavourable; it is therefore in vain to hope that this part of the country can ever become populous or wealthy. Those, however, who argue thus, do not seem to he sufficien'ly aware of what can be effected by man, when under a rational and mild system of government. Countries much more destitute of resources, under the vivifying influence of a wise system of legislation, have become much more populous than the most fertile kingdoms in Europe. " The canton of Appenzel," says Mr Robert in his Voyage dans les x111. cantons Suifses, p. 229, "a small district, part of which is occupied ' glacieres, inaccessible rocks, ravines, and precipices, offers a population of fifty-five thousand inhabitants, which, in proportion to its extent, greatly surpasses the most fertile countries. The canton of Appenzel contains seventeen hundred inhabitants for every square league ; neither the rich plains of the Milanese, nor the most fertile provinces of France, nor even the United Provinces, vivified by an immense commerce, does present such a population.

"I had seen," says he with surprise, " the multitude of habitations scattered along the mountains, on approaching towards St Gall; my astonifhment redoubled, and was carried to the highest pofsible pitch, when I entered into the canton of Appenzel. In places which are not susceptible of any culture, in an immense valley, where they neither gather wheat, nor wine, nor legumes, nor barley, nor

go on the Highlands. Sept. 5. rye, nor oats, nor fruits; where the soil neither produces hemp, nor flax, nor oil, not even potatoes; in these wild places which nature had devoted to solitude and desertion, what a prodigy is it to see the mountains covered, even to the top, with houses which seem to form a continued village without bounds ! so near do they approach to each other.

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"Appenzel, itself, which, considering the nature of the country, and its position, ought only to present a few straggling and miserable hamlets, is a beautiful burgh, the greatest part of the houses in which are painted, and whose inhabitants live at their ease.

"This magnificent burgh seems to be separated from the rest of the universe. Nature has thut up the avenues to it. The communication is such that it can only be approached by means of woodden stairs fixed to the rock. Neverthelefs, independent of a numerous population, the inhabitants are well clothed, well fed, and the inns well served."

Will any one who knows the Highlands of Scotland pretend to say, that it does not pofsefs natural advantages infinitely beyond what the canton of Appenzel enjoys? Yet if freedom and judicious laws have been sufficienc to clothe these barren and inacefsible hills with habitations, and to make the people live there in chearful affluence, what might not a small thare of the same political wisdom effect in the last 5-with the poet we may well say of this, That all is the g ft of industry.

But if government shall bind the hands of the vigorous, and thus dry up the very sources of affluence, is it pofsible to avoid execrating the power that is exerted, not to encourage industry, but to reprefs it ;--not to protect the people, but to annoy them ;--not to invite inhabitants to add to our population, our strengh, and our wealth, but te Sept. 5. er produces these wild and desertivered, even continued ach to each

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an only be the rock. lation, the inns well

f Scotland, advantages el enjoys? flicienc to abitations, affluence, al wisdom say of this,

e vigorous, is it pofed, not to rotect the abitants to lth, but to 1792. on the Highlands. 3^I compel our people to fly from these inhospitable fhores, and to seek that support among a foreign nation, that their own unwise legislators have thought it was not worth their while to afford them? I have no desire to promote national disgust; but it is impossible for me ever to contemplate this subject, without experiencing an indignant feeling that overcomes every other consideration.

Let not those who observe the present prosperity of Britain in other respects, turn their eyes from this disagreeable scene with contempt, or think it unworthy of their notice. The progrefs of depopulation, when it once begins, is rapid beyond what can be conceived; and extends its influence much farther than any person will easily believe. Spain, when in the plenitude of her power; when her empire embraced half the globe, and her arms made all the nations tremble ; Spain, at that moment, intoxicated with pride, and despising the dictates of reason, drove from her realms at once about a million and a half of her industrious people! In vain did men of sense point out the consequences to government ; these lower people were beneath their attention ; but with the loss of these people, the business of those which remained was prodigiously slackened, their wealth of course was diminifhed. The taxes they formerly paid with ease, fell short of the usual sum; new burdens must be imposed; which not being paid with ease, gave room for fiscal oppression *. Foreign conquests then opened a door for de-

• Dr Franklin, Dr Price, and some others, have endeavoured to make the people in Britain think lightly of the consequences of depopulation; but the necefsary effects of decreasing the number of the people, by diminifhing the industry of all who remain, as briefly mentioned above, are distinctly specified in a differentiation by the Editor, (See account of the Hebrider, In:roduction p. 314,) which having been sent to Dr Price, he candidly acknowledged he had written upon that subject too hastily, and nowwas satisfied he had been wrong.

32 on the Highlands. Stept. 5.structive enterprises; the population of Spain has gradually diminifhed from twenty-five to lefs than eight millions of people *. That country, which was once a paradise, is now a desert +; and the pittance of money that the crown can squeeze from a deprefsed people, by forced and injudicious taxes, affords to it a revenue of not one-tenth of the sum it might now have enjoyed, had wisdom directed the councils of the nation, at the time that their phrenzy made them believe that the lofs of a few of their poor people was of little consequence.

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* The twenty-five millions of people here mentioned, respects the time of Philip 11. of Spain. From the time of Augustus, till that last period, the conquest of Spain by the Goths and the Moors, and the continual wars carried on in that kingdom, had diminified the population from fifty to twenty-eight millions

[†] On few subjects do mankind in general judge more fallaciously than in what respects the fertility of countries, or their capability of sustaining a great number of people. Places that at present produce next to nothing, not even for the sustenance of domestic animals, may be made by human industry, where a numerous people are collected together, to produce in at fhort time as abundant crops as can be round in any part of the globe. There are many and extensive fields in the neighbourhood of Aberdeen_y whose whole produce, only a few years ago, was not worth sixpence an acre, that now afford the most abundant crops, and let fro a three to six pounds an acre, of rent. This is an undeniable proof of the power of fertillizing a country, by means of con-centered population.

It is more wonderful still that land, which has been by human industryrendered fertils and productive, fhould, by the absence of man, and the slackening of his industry, become once more barren and steril as at first. The land of Palestine that once supported such a number of people, as must have covered even its hills with habitations, is now so completely barren, that not a hundredth part of its then population, can find a scanty subsistence from its ungracious soil.

In like manner, Spain, which by all ancient authors has been celebrated for its amazing fertility, and which, while it contained a population in iraelf, alone, of fifty millions of people, easily found subsistence, and to spare, for immense foreign armies; now that its people are dwindled to eight millions, it has lost its fertility in a yet higher degree; so that these

Sept. 5. has gradualt millions of dise, is now crown can injudicious enth of the lom directhat their ew of their

spects the time at last period, the continual tion from fifty

ciously than in of sustaining a o nothing, not by human ino produce in a of the globe. of Aberdeen, h sixpence an a three to six power of fer-

iman industry. man, and the eril as at first. of people, as so completely find a scanty

been celebrapopulation in tence, and to dwindled to. so that these on the Highlands.

1792. If then depopulation be the necessary consequence of injudicious laws; and if national debility, and fiscal poverty, be the unavoidable consequences of depopulation, even in the most fertile countries : if, ou the other hand, a strict attention to guard the interests of the people, will, alone, be sufficient to clothe with hamlets the most inhospitable desert, and to diffuse wealth and happines among a numerous people, ---- irresistible national strength, and an abundant fiscal revenue, must be the natural and unavoidable consequences; as the examples I have produced clearly flow.

Is it rofsible for administration to turn their minds to any subject that is more deserving their maturest consideration, than that which I now so strenuously recommend to their notice? Now is the time to do it with effect. What proposition can be more plain, than that revenue is the offspring of population and wealth? and that of course every law which tends to diminish the number of the people, or to retard their acquisition of wealth, necefsarily dries up the sources of fiscal revenue ? Nothing sure can be more plain ; yet from the inattention that is bestowed upon this subject, by men in the executive departments of government, and by those who are not in it,

eight millions, though poorly fed, are obliged to have recourse to foreign countries, to which heaven, as they would say, had been pleased to grant a more fertile soil, for a supply of food. Such is the influence of NAN in this universe, that when free to exercise his natural faculties, and protected from the depredations of others, he can even create, ab it were, a new earth for h mself, make the most barren soil abundantly to supply his wants, and the most unhospitable climete become subservient in his will. It is not soil or climate, but liberty and protection alone, which can ever produce abundance. Let not, therefore, a country be abandoned, because it is now considered as barren. Let us not fear that ever provisionr will fail, where the hands of man are free, and where his industry is not checked by injudicious laws.

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VOL. XI.

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24 on the Highlands. Sept. 5. it would seem that neither of them are able to comprehend the force of this plain mode of reasoning.

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I have often said, nor can it be too often repeated, that the Highlands and Islands of Scotland offer natural sources of population, manufactures, and trade, and consequently revenue, that no other part of the British dominions can ever equal; and a time will no doubt come, when the nation will avail itself of these natural advantages; but how long it may be before this takes place, no one can tell. Many ages had elapsed before the Grecian Archipelago, from advantages similar in kind, though greatly inferior in degree. came to be the wonder of the universe. Innumerable bacour the Highlands, and Isles which have no bar but those that ill judged laws. create, offer a facility of intercourse between every part of the country and another, and with all the world, that are known no where else. Level straths lead from these harbours into the very heart of the country, in some places across the whole island, that offer an unequalled facility of intercourse by land. Inexhaustible streams of water, which, from the amazing height of fall, would, under proper management, have a power over machinery, next. to infinite, would give to manufactures there, an unrivalled advantage over all others. The sterility of the country is nothing; it is more fertile than Appenzel, more easily preserved from the destructive ravages of the elements than Holland; and were a free intercourse premitted by the laws, in coal and in grain *, it was we come a sure market for the produce of some of the stree fertile districts in Britain, which are better calculaten io

• Not only are the salt laws opprefaive, --- niany others are equally injudicious. Among others, by the late corn act, it is in the power of any customhouse officer stationed there, to statue nearly half a million of people for want of food, almoswhin he pleases! Sept. 5. to compre.

peated, that atural sourand conseritish domioubt come, ural advantakes place, re the Grein kind, the wonder Highlands, udged laws. every part world, that from these me places ed facility of water, ild, under nery, next. n unrivalthe counzel, more of the elcuna para W ID! JC. tur arre ulated ioqually inju-

equally injunower of anya million of

improvements in India. 35 1792. agriculture than manufactures. Halifax, Wakefield, and Leeds, enjoy only a few of the advantages that the countries I now describe polsels in perfection ; and the influence of these markets is felt for hundreds of miles around them. It is those alone who have seen and compared the natural capabilities of the two countries, who can form an idea of the infinite disproportion that subsists between them; yet it is this country which nature has formed, as it were, with the sole view of thowing to what an astonishing degree of perfection manufactures and trade may be carried. It is this very country our short sighted politicians despise, and by laws which nothing but signorance could dictate, and insanity continue, is rendered a dreary solitude. The people, by artificial restraints, are deprived of the very means of subsistence, and driven in despair to seek for refuge elsewhere. While the heart bleeds for individual distrefs thus produced, it is impossible to say whether contempt for the folly, or indignation at the atrocity of such proceedings should prevail. It is clear, however, that the minister who passively and inadvertently permits these things to be done, is far lefs to blame than those are, who, seeing these great evils, are at no pains to develope to the minister and the nation at large, the alarming consequences of not affording timely redrefs of such intolerable grievances.

NOTICES OF IMPROVEMENTS NOW GOING ON IN INDIA.

 $T_{\rm HE}$ benefits that would result to the community from a free correspondence carried on upon liberal principles, are inconceivably great. This is made particularly evident by the perusal of Dr Anderson's correspondence in Iudia, the continuation of which I received by the

36 improvements in India. Sept. 5. Raymond late from Madras. In every page of that correspondence, new facts are discovered, and striking views of improvements suggested. The culture of the silk worm, over a very extensive tract of country, is already in a great measure effected. And the opuntia is now reared in such abundance, as to afford no room to doubt, that when the cochineal insect arrives, it will soon become a general object of culture. Besides the white lac already mentioned, many other useful productions, by Dr Anderson's influence, have been brought to Madras from China, Sumatra, and the other islands in the Indian ocean. And in these researches, many valuable p'ants have been discovered that never were suspected to be there, particularly the bread-fruit tree, which was supposed to be found no where else on the globe but in the South Sea islands. The general spirit with which these enquiries are now carrying on in India, will appear from the following letters, which I willingly insert, from a full conviction that they will afford much pleasure to every well disposed mind.

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SIR, Mr R. Clerk dep. sec. to Dr James Anderson. THE supercargoes at Canton, having, in consequence of an application made by this government at your recom-mendation, sent here, in the fhip General Abercrombie, eight boxes containing 200 tallow trees, and 200 lacquer trees. I am directed to acquaint you that the commander will be directed to deliver those plants to your charge. I am, drc. Fori Si George, Feb. 14. 1792.

Dr James Anderson, to the bonourable Sir Charles Oakeley, bart. acting governor, and council, Madras. HONOURABLE SIRS,

I AM favoured with your notice of the arrival of trees, which are no doubt those I recommended to be sent from

Sept. 5. ge of that d striking ire of the ntiy, is alopuntia is o room to will soon the white ons, by Dr dras from ie Indian ble p'ants ed to be supposed he South these enear from om a full to every

son. uence of recomcrombie, lacquer he com-

to your

Oakeley;

f trees, it from improvements in India.

37 1792. China; but as it appears by your correspondence with Dr Berry that you disapprove of a botanical garden, and expect that he will only take care of the nopals, I am totally at a lofs how to dispose of them.

I can only say that the introduction of cochineal is a distant object, and the garden at Marmalon may be usefully employed, as I have long ago stated to your board; and as the honourable the court of directors have approved, in ordering these plants from China, I am unable to recommend him to take care of them, till your farther pleasure is known.

As the gentlemen at the factory have so handsomely acquitted themselves, I must recommend that in your first letter to Canton you will desire plants of the can-lachu and choui-la-chu, mentioned in my letter to your board, 24th November 1789, to be sent here.

As there are now plantations of mulberries through the whole extent of the coast, and as it will be of good consequence to extend the cultivation of the nopal, at those places where it may be cultivated without any additional expence, I thould be glad that you give directions to the postmaster general to receive letters, weighing eight ounces, which will enable me to transmit them.

I expect that you will favour me with a list of the superintendants of mulberry plantations, and an account of the charges they have made. I am, &c. Fort St George, Feb. 15.

Cha. N. White sec. to Dr James Anderson. SIR,

I AM directed to acknowledge the receipt of your letter of the 15th, inst. and to acquaint you that an application will be made to the supercargoes at Canton, agreeably to your recommendation, and that the postmaster will be directed to receive letters from you, for the purpose you mention, in such number as may not increase the weight of the tappals beyond what has been ordered, to prevent delay in conveyance of the posts.

Mr Berry was directed not to put the company to any additional expence on account of the botanical garden, until the court of directors shall have signified their plea-

improvements in India.

Sept. 5. sure respecting that establishment; and as the reception of China plants cannot be attended with any increase of charges, the honourable the governor in council approves of your recommending them to his care.

You will be furnished with a list of the mulberry plantations, and an account of their expences, when all the superintendants have reported the information required of them by some late orders from government. I am, &c. Feb. 18. 1792.

Dr James Anderson, to colonel Kydd, Bengal. DEAR SIR,

I have the pleasure to send by captain Pitman, who has been obliging enough to take charge of them, six tallow trees, and six lacquer trees, lately arrived from China.

I have not yet opened the box with the barometers you sent. As captain Kydd, and the gentlemen in Maifsore have been so nobly employed, I have not ventured to divert their attention ; but whenever the barometers can be attended to, in the manner you have specified, the experiments of measuring the heights will no doubt enable a better judgement to be formed of what the different countries are fittest for, than any thing we are yet posselsed of. 2 Feb. 27. 1792. I am, &c.

Dr James Anderson, to captain Simpson, commanding the Ship General Abercrombie. DEAR SIR,

38

UNDERSTANDING that you mean to touch at every port on the Malabar coast, in your way to Bombay, I beg leave to trouble you with sixteen wine baskets, filled with three different kinds of nopal plants, that have been raised here for the culture of cochineal, (viz.) from his majesty's garden at Kew, from the French king's garden on the isle of France, and from China.

As the baskets are filled, and closely packed with nopal branches, which can receive no injury, you may throw them into the ship's hold, or stow them away in any manner the least inconvenient, taking care only that they

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Very port on I beg leave d with three raised here hajesty's garn the isle of

d with nopal may throw in any manthat they 1792. improvements in Inaid. 397 may be readily come at, as I with you to distribute some at ... cry place you touch at, to such persons as will undertake to plant them.

I have likewise the pleasure to send you nine copies of the publications I have made on the subject.

Sincerely withing you health and a happy voyage, March 7. 1792. I am, &c.

Captain Simpson, to James Anderson, esq. physician general. DEAR SIR,

I had the pleasure of receiving your letter, of yesterday's date, with uine sets of each of your publications, accompanied with a request that I would take charge of sixteen. wine bafkets filled with three different kinds of nopals, that have been raised in your garden at Madras for the culture of cochineal.

I most chearfully accept the charge, and fhall not fail to distribute a part of each sort, with a set of your publications, along the Malabar coast, and at Bombay, to such persons as I judge will pay attention to a plant so easily brought forward, and that ultimately may prove so advantageous to that side of India.

I shall hereafter have the pleasure of acquainting you in what situation, and with whom I have placed them, and have not the smallest doubt of their succeeding perfectly to your wishes. I have the honour to be Sir, Grc. March 8, 1792.

Dr James Anderson, to the honourable Sir Charles Oakeley, bart. acting governor and council.

HUNOURABLE SIRS,

By captain Simpson, who brought the tallow and lacquer trees in safety from China, I have sent to the Malabar coast five cart loads of nopals, chiefly of the sort that eame from Kew garden, and having a perfect reliance on the integrity and attention of this gentleman, I have the honour to inclose the copy of his answer to me, which you will be pleased to transmit to the government at Bombay, with a requisition on your part, that the plants captain Simpson delivers be properly taken care of, as there can

to correspondents.

Sept. 5.

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be no doubt that, sooner or later, the cochineal insect will be sent from America to this country, and it will be of great consequence to have plants every where in readinefs for their reception.

On the 18th November 1789, I had a promise from your board of obtaining from Sumatra trees of that country, but to this hour have heard nothing more of the matter-what this silence can be owing to, I am at a lofs to say, as Mr Crisp, governor of Benccolen, is reputed to have much attention to subjects of this nature.

As the fhip Asia is about to sail for that island, I beg leave again to request your attention to my letter of the 12th November 1789, and having it in contemplation to promote an attention to the culture of the bread fruit tree, I am induced to request you will particularly specify two kinds of bread-fruit trees, which captain Lewis of that establihment tells me grow there, and are mentioned in Marseden's history of Sumatra, under the Mallay names of Sookoon and Calawee. I am, Oc.

March 12 1792.

Sia,

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Mr R. Clerk, to Dr Jaines Anderson.

I AM directed by the governor in council, to acknowledge the receipt of your letter of the 12th instant, and to acquaint you that letters will be written to the gentlemen at Bombay and fort Marlbro', agreeably to your request. Murch 14. 1792. I am, Gc.

To be continued occasionally.

TO CORRESPONDENTS.

The favour of Liberalis is come to hand; but perhaps it is rather a little too late 'o answer fully the intentions of the writer. Pos.ige not paid, a The observations of Sam. Bombfhell are received; but they seem to be at present unnecessary, as the event to which they alude has ac ually ta-ken place, and no person has experised distatistation at it, which flows that the remarks of this writer are very jus; s—but it is unnecessary to combat a fladow. His farther correspondence will be very acceptable. The observations of A B thall have a place as soon as conveniency will nermit.

will permit.

The third letter of *Trader Political* is received. The verses by W G, are received, and shall be applied as he desires. Many acknowledgements still deferred for want of room.

Sept. 5. l insect will t will be of in readinefs

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rather a little to not paid. If y seem to be s ac ually tawhich thows nnecefsary to acceptable, conveniency

he desires. m.



THE tiger is one of the largest and most ferocious animals of the cat kind, the peculiar distinguishing characteristic of which class is a set of formidable claws, which are capable of being extended or drawn in at pleasure. Fortunately they are a solitary class of animals which never unite for mutual defence, like those of the herbiverous kind, nor join in packs to hunt for prey, like those of the dog kind. They seek their food alone, and are frequently enevol. xi.

42 on the tiger. Sept. 12. mies to each other; though differing greatly in size and colour, they are nearly allied to each other in form and disposition, being all fierce, rapacious, and artful.

No quadruped can be more beautiful than this animal; the lofsy smoothnefs of his hair, and the extreme blacknefs of the streaks with which he is marked, on a ground of a bright yellow, agreeably strike the beholder. He is larger than the leopard, though slenderer and more delicate. The principal distinction of the tiger, and in which he differs from all other mottled beasts, is in the form of its colours, which run in streaks nearly in the same direction as the ribs, from the back down to the belly. On the leopard, the parther, and the ounce, the colours are broken in spots all over the body; but in the tiger they extend lengthwise, and hardly a round spot is to be found on its fkin.

Of all animals the tiger most resembles the cat in fhape; but in size it so much exceeds this common domestic that the resemblance does not strike one so strongly who beholds the live animal, as when he views a good representation of it in a print. Mr Buffon informs us that he had been afsured by one of his friends, that he saw a tiger in the East Indies of fifteen feet long. He probably included the tail in these dimensions; therefore, allowing four feet for that, it must have been eleven feet from the tip of the nose to the insertion of its tail.

The tiger does not pursue his prey, but bounds upon it from his ambush with great elasticity, and from a distance that is almost incredible. If they

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Sept. 12. greatly in each other rapacious.

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the cat in s common like one so s when he brint. Mr t by one of t Indies of the tail in ur feet for the tip of

sticity, and If they 1792: mils their object

mifs their object, they instantly retire; but if they succeed they carry off their prey with ease, were it even as large as a buffaloe, without feeling any impediment in its flight. They are thought to prefer preying on the human fleft to that of any other animal. They lurk among the sides of bufhes, and almost depopulate many places. If they are undisturbed, they plunge their head into the body of the animal up to the very eyes, as if it were to satiate themselves with blood.

on the tiger.

43

The tiger is peculiar to Asia, and is found as far north as China and Chinese Tartary : it inhabits mount Ararat, and Hyrcania, of old famous for its wild beasts. The greatest numbers are met with in India, and its islands. In the mouth of the Ganges, in particular, are many islands which, when that country first came under the dominion of Britain, were inhabited by a numerous people. The famines that were occasioned by the earliest effects of European. rapacity in those regions, extirpated the inhabitants; and such isthe rapid progrefs of desolation in a fertile country, destitute of people, that these extensive islands are now only covered with woods, and so overran with wild beasts, that the people who go thither to take up. salt from the lakes, must always have a strong guard to protect them from the tigers; notwithstanding. which, there never is a season in which several people are not thus carried off and destroyed ...

The following story is well authenticated. Someladies and gentlemen being on a party of pleasure, under a fhade of trees, on the banks of a river in Bengal, were suddenly surprised at seeing a tiger

44 on the tiger. Sept. 12. ready to make its fatal spring; one of the ladies, with amazing presence of mind, laid hold of an umbrella; and, unfurling it, directly in the animal's face, it instantly retired. Another party had not the same good fortune. A tiger darted among them while they were at dinner, seized on a gentleman, and carried him off in the sight of his companions. One of these, however, had the presence of mind to level his piece at the animal, and fired so fortunately as to kill him. The gentleman who was carried off escaped with a slight mutilation, and is at present alive in Great Britain.

'The tiger is the most terrible scourge of the country wherever he is found. He is not only strong and nimble, but ferocious and cruel to an astonishing degree. Though satiated with carnage he perpetually thirsts for blood. His rest 's fury has no intervals, except when he is obli · lie in ambush for prey at the sides of rivers, muich other animals resort to drink. He seizes and tears to pieces a fresh animal with equal rage as he exerted in devouring the first. He desolates every country that he inhabits, and dreads neither the aspect nor the arms of man. He sacrifices whole flocks of domestic animals, and all the wild beasts which come within the reach of his claws. He attacks the young of the elephant and the rhinoceros, and sometimes even ventures to brave the lion. His predominant instinct is a perpetual rage, a blind and undistinguishing ferocity, which often impel him to devour his own young, and to tear their mother in pieces when the attempts. to defend them. He delights in blood, and gluts him-

179 self for it, s of v app who rest tem ly i soci corr soft pera hand stril ever gard with ful his i fury Т fron that all t that sibly A Indi ticat the j lefs, Sept. 12: ties, with mbrella; ice, it inthe same em while and car-One of level his as to kill aff escaped alive in.

the counly strong tonishing perpetualno intermbush for r animals ces a freih devouring at he ine arms of c animals, the reach e elephant entures to t is a perferocity, n young, attempts gluts him-

1792. on the tiger. 45 self with it till he is intoxicated. He tears the body for no other purpose but just to plunge his head into it, and to drink large draughts of blood, the sources of which are generally exhausted before his thirst is appeased. The tiger is perhaps the only animal whose ferocity is unconquerable. Neither violence, restraint, nor bribery, have any effect in softening his temper. With harth or gentle treatment he is equally irritated. The mild and conciliating influence of society makes no imprefsion on the obduracy and incorrigiblenefs of his disposition. Time, instead of softening the ferociousnefs of his nature, only exasperates his rage. He tears, with equal wrath, the hand which feeds him, as that which is raised to strike him. He roars and grins at the sight of every living being. Every animated object he regards as a freih prey, which he devours beforehand with the avidity of his eyes, menaces it with frightful groans, and often springs at it, without regarding his chains, which only restrain, but cannot calm his fury.'

The foregoing animated description is extracted from Smellie's philosophy of natural history. Since that book was written, a fact has been narrated in all the public prints, which, if true, seems to flow that the tiger, under proper circumstances, may pofsibly be tamed to a certain degree.

A beautiful male tiger, latcly brought over from India, in the Pitt East Indiaman, was so far domesticated, as to admit of every kind of familiarity from the people on board. It seemed to be quite harmlefs, and as playful as a kitten. It frequently slept

Sept: 12. on the tiger. 46 with the sailors in their hammocks ; and would suffer two or three of them. to repose their heads upon its back, as upon a pillow, whilst it lay stretched out upon the deck. In return for this, however, it would now and then steal their meat. Having one day taken a piece of meat from the carpenter, he followed the animal, took the meat out of its mouth, and beat it severely for the theft, which punishment it suffered with the patience of a dog. It would frequently run out upon the bowsprit ; climb about the fhip like a cat; and perform a number of tricks, with an agility that was truly astonishing. There was a dog. on board the ship, with which it would often play in the most diverting manner.

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If there were no reason to doubt the truth of this. account, still we must advert that it was only a month. or six weeks old when it was taken on board the fhip. It is probable, from what is known to be the case with others, that when it had attained a mature age, its natural ferocity might have returned; for among the great number of tigers which have been carried through this country as a flow, it is found, in gencral, that neither gentlenefs nor restraint have any effect in softening its temper. It does not seem sensible of the attention of its keeper ; and would equally tear the hand that feeds, with that which chastises it.

We are informed by captain Hamilton, that in Shindah Raja's dominions there are no less than three sorts of tigers, the smallest of which are the fiercest. The small ones are about two feet high, the second three feet, and the larger sort above three feet and an

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Sept. 12.

would sufheads upon tretched out er, it would ug one day he followed th, and beat nent it sufld frequentout the fhip cks, with an e was a dog often play in

truth of thisonly a month bard the fhip. the case withture age, its or among the been carried and, in gencahave any efot seem senwould equalhich chastises

ton, that in efs than three the fiercest. h, the second ee feet and an **57.92.** on the tiger. **47** half high. But the latter, though poisefsing superior powers, is lefs rapacious than either of the former. This formidable animal is called the *royal* tiger, and does not seem so ravenous nor so dangerous as the others. The figure that accompanies this was made with great fidelity from an accurate drawing of a very fine one of this kind, that was sometime ago exhibited as a fhow in Edinburgh, and is now going about through England for the same purpose.

We have no certain accounts of the number of young which the tigrels brings forth, but it is said the produces four or five at a time. Though furious at all times, upon this occasion her ferocity is encreased. If the be robbed of her young, enraged, the pursues her spoiler, who is said sometimes to escape, with a part, by the following device. He first drops one of her cubs, which the carries back to her den, and again returns to the pursuit; he then drops another, with which the runs to her den as with the former, when the plunderer often gets off with the remainder before her return. If the be robbed of all her young, the becomes desperate, boldly approaching the towns, where the commits incredible slaughter.

The fkin of the tiger is much esteemed all over the east, especially in China, where the mandarins cover their seats" of justice with it; but in Europe, those of the panther and leopard, are held in much greater estimation. Here, it derives no value from the difficulty of obtaining it, and the honour derived from its conquest. The Indians sometimes eat the flefh of this animal, though they do not look upon it as a delicacy.

48 on the Chinese language. Sept. 12. The chariot of Bacchus is represented in ancient mythology as drawn by tigers; and tigers are sometimes scen at the feet of the bacchanals. It is emblematic of the fury with which they are agitated.

HINTS RESPECTING THE CHINESE LANGUAGE.

It is not a little curions to trace the circumstances that may affect the language of a particular people, and produce a diversity in the modes of expressing their ideas.

The kingdom of China has subsisted as a separate state for a greater number of years than any other that we know of on the globe. The customs of that people, and the political institutions of their empire, have changed lefs than those of any other nation. These, therefore, must have had a more lasting, and consequently a stronger influence over the minds of the people than is to be expected any where else.

From these considerations we are to expect that the peculiarities of expression, necessarily arising from the mode of writing adopted by them, will have a greater influence over their mode of thinking and oral expression, than among nations that have known the use of written characters for a shorter time.

Every person knows that the written language of China, is extremely different from that of Europe. In China the use of alphabetical letters is unknown. Every word has a distinct character to denote it, and of course it is a tafk of extreme difficulty to acquire a facility in the art of writing there.

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To diminifh the immense multiplicity of words, many curious devices must have been adopted, which we in Europe can scarcely form an idea of. Many words which we find extremely convenient for connecting and modifying the meaning of nouns and verbs will be supprefsed in writing; and a scope will thus be given to the imagination of the reader to supply these, with which we are entirely unacquainted. What effect this will have upon the general phraseology of the people it would be curious to trace, though it must be a matter of nice and difficult investigation.

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Even European languages, in which every oral word that is employed admits of being reduced to writing, with the utmost facility, afford examples of the total suppression of some parts of speech in one language, which are deemed efsentially necessary in another. In Latin, for example, the word homo, denotes, alike, what, in English, would be expressed by man in general, by a man, or the man, as in these phrases: " man is the most sagacious animal on this globe ;" " a man came to me from the city ;" " the man who came from the city ' is a fool." Yet those who are acquainted with Lague think they perceive no want here, while those who write in English would think their meaning could only be guefsed at if they wanted any of these words : In like manner, the written Hebrew language has no vowels, though we would think that our written language would be totally unintelligible without them.

But in the Chinese written language, the supprefsion of words, for the reasons already given, must be much more common than in European languages. VOL. 21. G t

on the Chinese language. Sept. 12. -50 This we would conclude from reasoning alone ; and it is confirmed by the following letter, that was communicated to me by an ingenious gentleman, to whom the literary world is much indebted for many valuable efsays. The letter was written near twenty years ago, by a gentleman who is now no more; and I print it the more readily at the present time, in the hope that it may fall into the hands of some of the gentlemen who are to go with lord Macartney, on his embafsy to China; and may probably suggest to them some subjects of enquiry that might otherwise escape them, among the vast diversity of new objects that must necessarily solicit their attention.

" I have lately met in company Whang-At-Ting, the Chinese, who is now in London; of whom, if you have not received any account, you may perhaps like to hear some particulars. He is a young man of twenty-two, and an inhabitant of Canton, where having received from Chit-qua, the Chinese figure maker, a favourable account of his reception in England, two or three years ago, he determined to make the voyage likewise, partly from curiosity, and a desire of improving himself in science, and . partly with a view of procuring some advantages in trade, in which he and his elder brother are engaged. He arrived here in August, and already pronounces and understands our language very tolerably; but he writes it in a very excellent hand, which he acquired with case by using the copy books recommended by Mr Locke, in which the copies are printed in redink, and are to be traced over by the learner with

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At-Ting, whom, if may pera young Canton, Chinese reception etermined curiosity, nce, and . intages in engaged. ronounces y; but he e acquired ended by ted in red. rner with

3792. on the Ghinese language.

91 black ink. He has a great thirst after knowledge, and seems to conceive readily what is communicated to him; and he scruples no pains that will further his improvement. The gentleman at whose house I met him, having, among other Chinese things, a drawing or print representing a naked man, like that in our old fheet almanacks, with straight lines drawn to different parts of his body, he was asked what this meant; to which he replied, that it was for the use of the younger practitioners. in physic, in order to shew them to what part of the body the cauterizing pin should be applied, to remove a disorder in other corresponding parts. For the Chinese practitioners attribute very great powers to the actual cautery, and have frequent recourse to it. And he himself showed a scar, by the side of the first joint in his thumb, where he was cauterized for a pain in his head

" As we Europeans have little knowledge of the Chinese language, it will perhaps entertain you, as it did us, to hear his interpretation of the Chinese characters, upon a stick of Indian ink that was shewn him, especially as it conveys some idea of the peculiarities of their language, and shews how they supply their want of connecting particles, by a repetition of the leading word. You are probably aware that they have not an alphabet like other nations; but that their language consists entirely of a great number of different characters, forming so many complete words, and which in writing are placed one under another in a perpendicular column. I will endeavour, therefore, to give you, in separate columns,

52 on the Chinese language. Sept. 12. the characters themselves, the sounds of them (as nearly as he could represent them by our letters) and an exact verbal translation of them, from which you will immediately observe, that in this sentence, consisting of twelve characters only, one of them, which answers to our word thing, is repeated four times, and so makes a third part of the whole *.

Ke	Thing	Ke	Thing
Yeng	Shape	Tyey	Body
Fo-ong	Square	Foong	Ugly
Ke	Thing	Ke.	Thing
Chat	Hard	Yong	Great
Koong	Black	Thong	Use †.

Rendered into good English it would run thus :

" In shape it is square, and it is hard and black; and though it is ugly in appearance, yet it is of great use."

London, Feb. 18. 1775.

The circumstance that I would most wifh to knowis, whether in oral expression a mode of phraseology similar to the above translation be adopted, which I scarcely think possible. If it be not, then it must happen that in China the written language is a thing totally different from the oral, and that of course the reader must be obliged, as he goes along, to translate it, as it were, from the written into the oral language. Some elucidations on this subject would prove very interesting.

. The Chinese characters are omitted for want of types of that kind ...

⁺ There are several remarks would have occurred respecting the *form* of the original Chinese characters, could I have inserted them, but these I must omit.

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1792 on taste in architecture.

ON TASTE IN ARCHITECTURE.

53:

Continued from vol. x. p. 273.

Sin, To the Editor of the Bee.

WE are informed by Vitruvius, that, even in the age of Augustus, the chaste models of Phidias began to be disfigured by meretricious ornaments ; and that the decline of virtue was suddenly followed by the decline of taste. After the reign of Trajan, we look in vain for elegant simplicity in Roman architecture: every thing in the Roman empire exhibited the marks of corruption, and we need only look at a Roman. denarius of the Antonines, to discern the rapidity. with which the fine arts hastened to decline, after the lofs of liberty. The great characters of the Augustan age had either been bred under the commonwealth, or received their education from citizens who felt the glory and emulation that arise from political importance. Architecture was now in the hands. of rude soldiers, effeminate courtiers, or dispirited slaves. The beautiful forms of nature, and the majestic copies of nature, at Athens, were no longer copied ; but bulk and tawdry decoration were substituted in the place of decorous simplicity. After the translation of the seat of empire to Byzantium, the oriental forms of building were mingled with the Grecian, and at last terminated in the cumbrous dome and preposterous spire. After the complete destruction of the Roman empire, and the introduc-

Sept. 12. on taste in architecture. 54 tion of feudal laws and manners by the barbarians, nothing can be traced but dungeons for barons, and wooden churches for temples, until, after the formation of regular monarchies in Europe, and the prevalence of munificence among monks, architects and various artists were invited from the east, to erect those stupendous churches, the architecture of which is denominated Gothic, which appears to be only a spurious mode of Grecian architecture, that gradually deviated until the total extinction of all resemblance to the ancient. This total dereliction of the Grecian forms, does not appear until the middle of the twelth century, though the due proportions had been long neglected, and the gloomy cloister had been for centuries substituted for the spacious and airy portico and colonnade.

During the space of more than four centuries, this new mode of architecture continued to supplant the decayed temples of the ancients, with improving lightnefs and elegance ; while the castles of the nobility being necefsarily destined for defence, were constructed with unabated clumsinefs and barbarity *.

It is not my purpose to enter into any discufsion concerning that mode of architecture which is indiscriminately called Gothic, and which has lately been subjected to the remarks of a very sensible and entertaining writer in this miscellany; nor am I disposed to deny that this form is well adapted to the solemnity of religious worfhip; or that, with its magnificent windows, and light carvings and embroidery, admitting through stained glafs a rich and glorious illumi-

• See the accurate history of ancient castles, by Mr Edward King, in the transactions of the Antiquarian Sociéty at London. x79: natio to d Gree mode vent W

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Edward King, in

3792. on taste in architecture. 55 nation, it may not, in some respects, contribute more to devotion than the natural and elegant forms of Greeian architecture; I mean only to flow that this mode of architecture was adventitious, and not the invention of the nations where is appeared.

When, after the revival of science, and the fine arts, the ancients came to be studied by the great Michael Angelo, it was the glory of that artist to regenerate the art completely, and not to tamper with the vicious forms that he found in Italy. Neither was it Vitruvius that he studied, but the remains of Athenian perfection, which he traced in the rubbifh of Rome, and wherever they were to be discovered in Italy. St Peter's and other fine modern buildings were the fruits of his study, and of that of his afsociates and succefsors; but he copied them in their chaste simplicity, and did not jumble forms together, as has been done by our modern architects.

He could not resist adopting the rotunda of the temple of Agrippa for St Peter's, without which I am apt to believe it would have been more perfect. The dome is a clumsy heavy form, that fills the eye without enlarging the imagination, and has been unfortunately too much a favourite with the succefsors of Michael Angelo.

Michael Angelo and Raphael, though worfhipped by artists, are not admired, I believe, in the way they thenselves would have chosen. They are admired for their genius, but would have claimed to be praised for their good sense and discernment. They did not fill their portfolios with drawings of their own composition, but with studies from the antique. From these without deviation (except where they

56 on taste in architecture. Sept. 12, were forced by their employers, they brought forth those master pieces that immediately charmed the eye of every beholder. They applied, as it were, the spear of Ithuriel to the latent forms of Greek and Roman art, and produced them once more to be the edmiration of the universe.

The same observations are applicable to the chizzel of Bernini, and to the pencils of the best scholars and succefsors of Raphael. The mind of Michael Angelo, filled with the images of that noble simplicity which characterises the stile of Grecian architecture, saw the deformity and meannefs of double tiers of columns and arches; and the poverty of a façade without deep columnar fhadows, and projecting parts in the whole, to obviate that flatnefs which nature abhors in all her works: that nature which was the model from which his great masters originally copied, and which we must copy, if we fhall dare to invent with the hopes of excellence.

Neither was it the buildings of the ancients alone that Michael Angelo studied, or that formed his transcendent taste.

He studied the beautiful forms of the ancient statues.

> "The quiver'd God in graceful art who stands, His arm extended with the slacken'd bow, Light flows his easy robe, and fuir displays A manly soften'd form. The bloom of gods Seems youthful u'er the beardlefs check to wave; His features yet heroic ardour wirms; And eweet subsiding to a native smile, Mix'd with the joy elating conquest gives, A-scatter'd frown exaits his matchlets art." THOMSON.

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THOMSON.

2792. on taste in architecture. 57 Taste in architecture, therefore, is the child of sensibility, of nature, of experience, of the study of the antique, of good sense and propriety.

It will languish in a rude climate, where there is not wealth to promote great undertakings; it will be debauched and enervated in any country where sudden wealth has checked its progressive improvement, and prescribed plans to it, that are inconsistent with classick examples; and it will be finally destroyed by the introduction of patch work ornament, and diminutive parts, even though every individual part may be taken from the best models.

As I write for no particular country, I fhall escape the censure that I might incur by blaming artists; but these, in all countries, if not blinded by vanity or corrupted by vicious practices in architecture, will read their chastisement in the luminous principles that are drawn from the history of the art, and its connection with the inexterminable principles of the human understanding and the human heart.

As the fine models of antiquity were, from the wealth of individuals, and the general diffusion of that wealth in Britain, more copied in the internal decorations of apartments, than in the verification of great models and in public edifices; so almost all our artists have been faulty in the poverty of their designs, in the want of noble columniation, fluidowy division of parts, and in what I would beg leave to call the perspective of architecture.

Thus, have I completed the fketch of my reflections, on the sources of improvement in architecture, and concerning that taste by which it must be vol. xi. H +

Sept. 12. on Mooting pigeons. 58 regulated to render it noble, convenient, and delightful. I have flown that the original elements of its perfection are to he sought for, and discovered only in pature and sensibility; and that nature, in the high example of the Greeks, can never be relinquithed without deformity and disappointment. I might have dilated these observations to swell into a book, and sold them to a bookseller, escaping the sneer of prouder authors as a periodical dangler ; but in the businefs of writing, I am of the opinion of St Augustine, " that a great book is a great evil ;" and being exceedingly desirous of giving a proper direction to the overflowing wealth of my countrymen in architecture, I have systematically chosen the most sudden and extensive channel of communication. To many there will seem to he little contained in this last cfsay, and to a few there will seem a great deal ; I will not, I cannot, conceal that I am, and always have been desirous of pleasing only a few. I am, Sir, Your obedient humble servant,

B. A.

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ON SHOOTING PIGEONS.

To the Editor of the Bee. SIR,

I HAVE observed for these two or three years past, advertisements in the news-papers from an afsociated body of proprietors, threatening to prosecute the shooters of pigeons; and which, as these advertisements appear only at this season of the year, it may be presumed that it is thereby intended to intimidate

Sept. 12. id delightents of its vered only in the high elinquilled I might to a book, he sneer of but in the St Augusand being direction to n in archi-10st sudden To many this last efleal; I will lways have om, Sir, ervaut, B. A.

e years past, an afsociaprosecute the se advertiseyear, it may to intimidate 19702. on flooting pigeons. 59 the farmers from taking that mode of protecting their crop, from the ravages of these destructive creatures.

With respect to the *law*, in this case, I must take the liberty to observe that the old *Scots* acts on this subject, *still unrepealed*, are totally silent as to *fboot*ing or *destroying pigeons*, although they guard with abundance of precision against the breaking of pigeon *bouses* *.

To judge then from the dictates of reason alone : is it at all reasonable that the poor tenant fhould be obliged to suffer the pigeons of the opulent landlord, not merely to *feed* on his crop, but to *destroy* it? for it is a well known circumstance that a flock of pigeons alighting among a field of wheat, destroy at least fifty times as much as they eat. Thus, to save the great man one fhilling, his poor tenant must suffer a lofs of fifty !!

I am positively certain, that in my own farm, which is not very extensive, I lose every year, at this time, fifty bolls of wheat, not eaten, but destroyed by pigeons. I aver also, that all the pigcons for a mile around me, do not produce a revenue to their wealthy owners of ten pounds the whole year. These are facts that I can well substantiate; nor is my situation at all singular; it is the case of the whole of the low country in general. In this manner there is at least five thousand bolls of wheat in this county

* The British statute on this subject, which was made, I think, in 1762 besides that it does not repeal the old Scots acts, it makes the penatives recoverable only in Weßminster-ball, so that it cannot possibly be construed to extend to Scotland.

60 on fbooting pigeons. Sept. 12. annually destroyed in the filling season by pigeons, which do not themselves yield L. 500 of revenue por annum. This is not merely vexatious and opprefsive to the farmers, it is a national calamity, worse than the mildew or the smutt,—I had almost said, than the Hefsian fly; and yet if the industrious hufbandman, indignant at the havoc made in his crop by these vermin, fhould attempt to prevent it by destroying them, he is in danger of being overwhelmed by a whole combination of landlords against him !

It would be more laudable in these great men to enter into an *afsociation to feed their own pigcons* at this season of the year, than to prosecute thosewho in defence of their property destroy them. The damage they do to the standing corns is far beyond, what is saved in the expence of their feeding,

It may be alleged that the farmers, instead of *fbooting* the pigeons, may drive them away by scares. and rickets. But that has always been, and ever will be, a vain attempt, so long as their owners withhold food from them at home. Nay, fhameful as it may seem, it is a notorious fact, that many wealthy owners of pigeons, with the greatest assimity, drive away their own flocks at this season from their own lands, that they may prey on the crop. of the neighbouring farmers !

One would almost think, that in these revolution times there is a general conspiracy against our good old constitution. On the one hand we have the democratic faction endeavouring to inflame the minds of the people against it, by misrepresenting our own situation, compared with their Frenchified ideas of civil 170 libe clai mus of t the seas tion Mu Aug

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revolution st our good the demoie minds of our own sieas of civil

1792. detached remarks. 61 liberty. On the other hand we see the aristocratic interest in the most public manner setting up a wild. claim of privilege that their pigeons, forsooth, must not be molested in the act of destroying the crop of the country ! If it is unseasonable at this time on , the one side, to cry up a reform, it 'is surely as un-seasonable on the other side to irritate by the alsumption of unreasonable and ill founded privileges. Mid-Lethian, 7 Aug. 22. 1792. 5

COMMON SENSE.

DETACHED REMARKS. For the Bee.

To receive a favour with a good grace, requires a. certain greatnefs of soul, which our natural. pride, and love of independence, render it difficult to exercise; hut that surely is an unbecoming pride, which makes us revolt against obligations, conferred by those we esteem, and wish to make happy. It is one unhappy consequence of an extensive knowledge of the world, to render us cautious and suspicious, and. to check that sweet benevolence that glows in the bosom of uncorrupted youth. Always believe the best you can of your species; but remember that appearances are often fallacious, and, if trusted on every occasion, may betray you into error, and even danger.

The children of misfortune have a claim, not only to sympathy and relief, but to respect, because they are peculiarly sensible to the wounds inflicted by carelefsnefs and neglect. Small favours and quiet atten-

tions, excite a more pleasing and tender gratitude, in minds of real delicacy, than great obligations. We are opprefised with a sense of the latter, and the feeling of conscious inferiority they awaken is always painful; but the former is soothing to our self-love, without wounding our pride or generosity.

Splendid actions are often the effect of vanity; constant attentions are always the offspring either of friendship or humanity.

Console yourself with the innocence and integrity of your heart, and trust that being, who isnot only powerful to protest, but merciful to support suffering virtue, and who at last will eternally reward it. Often when our prospects are most gloomy, and our way most perplexed, that unseeen hand, which directs the course of human affairs, is stretched out for our deliverance, and conducts our steps to safety and peace. Conscious of the rectitude of my intentions, I commit the ifsue of my conduct to that being, whom it is my unfeigned desire to please, who will confirm the good resolutions he inspires, and never forsake those who trust in him.

In spite of all the inconveniencies to which it exposes its pofsefsor, a feeling heart is surely to be regarded as the first of heaven's bleisings. Its very pains are pleasing; how exquisite then its joys! Other qualities are perhaps more efsential towards forming the character, but sensibility never fails to x799 cons dulg prej ouly they char

T. amid that heav tae, take treas vine ough God, ever infini com us h be in tried that, he h arise our even after rene, pros impo Sept. 123ratitude, in tions. We nd the feelis always r self-love, y.

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which it exsurely to be gs. It; very nen its joys! ential towards never fails to **x_{792}**. detached remarks. 63 constitute the truly annable one. The too great indulgence of tender feelings, however, often p ives prejudicial to the exercise of the social virtue; it is only when the former are properly regulated, that they become respectable, by leading to the due discharge of the latter.

Though chearfulness cannot always be mantained, amidst the unavoidable evils of life, there is a peace that may be ours, even while struggling with its heaviest misfortunes; a peace, the c neomitant of virtue, which religion alone can give, and guilt only take away. The great foundation of this invaluable treasure, must be laid in just apprehensions of the divine nature and government. If we believe, as we ought, that we are the offspring of a great and good God, who, by his efsential attributes, is present in . every place, directing all events, and carrying on, by infinite wisdom, the plan of his divine government, to complete perfection; if we believe that he has placed us here as on a theatre, where our dispositions must be improved, our actions displayed, and our virtues tried, in order to future retribution; if we know that, superadded to the feeble glimmerings of nature, he hath caused the glorious light of revelation to arise, to dispel our fears, confirm our hope; and lead our desires to suitable objects; if we are assured that events here, shall prepare us to eternal felicity hereafter,-how can we be otherwise than chearful, serene, and happy? Let us habituate our minds to the prospect of that fast approaching future, the awful importance of which will cause the heaviest of our

G4 detatched remarks. Sept. 12. present evils to seem light; yes, the time is coming when piety and benevolence shall be rewarded with that felicity, which even in this world they anticipate, and which shall be the portion of the truly good, through ages that shall never end. -----

Oh! my dear friend, how do trying situations endear to us the great truths of religion. It is religion which stills the violence of passion, and soothes the most turbulent to peace; it is that which, in the darkest hour of adversity, illumes and chears the soul of man; it is that which proves the real dignity of our nature, by discovering to us our origin and destination; it is that alone which converts the fearful apprehension of a mortal separation, into the confirmed hope of an everlasting reunion, with those whom our souls hold dear. MIRA.

FROM A CELEBRATED AUTHOR.

- MORAL philosophy makes the bonest man.
- Natural philosophy, the ingenious man.
- History, the man of experience.
- Poesy, the man of wit.
- Rhetoric, the eloquent man.
- Polite learning fheds a diffusive grace and ornament upon all kinds of literature.
- The knowledge of the world constitutes the intelligent man.
- The study of the sacred pages forms the good man. But ALL these must go together to make the perfect, complete gentleman.

Sept. 12. is coming arded with anticipate, ruly good,

uations enis religion soothes the n the darkthe soul of mity of our a and destithe fearful to the conwith those MIRA.

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POETRY.

THE MOURNING MOTHER.

For the Bee.

 $F_{R\,o\,M} \ heav n's \ wide \ concave, \ where \ serencly \ mild \ The eye of mercy beams upon the blest, \ Look \ down \ and \ net \ down \ down$

Yet rather turn from misery and wee, Thou dearess offspring of connubial love; Nor let a mother's wretchedneis below, One moment dafh thy happinefs above.

Oh nature! thou my aching hosom arro, With force of soul to play my trying part; Thou who with magic hand hast fix d the charm, That twists a child so strongly round the heart.

Dear, lost Elizal in thy infant years, When sweetnefs lisping prattled o'er its toys, One smile of thine would dispipate my fears, And fill my bosom with a thousand joys.

Thy winning softnefs and thine artlefs truth, The starting tears from misery have stole; Supplied the buried hufbind of my youth, The first and last pufsefsion of my soul.

Thou wert that all which fortune had bestow'd, T' endear this transient and unreal stage; To smooth life's weary and fatiguing road, And chear alike infirmity and age.

What scenes of funcied ple sure would I trace, Thy little race of prattlers to attend; And pris the fhort remainder of my days, A grandchild's parent, and a daughter's friend,

Delusive dreams! return to glad my years; O rise again in all your form so fair! Dejection now for happinefs appears, And grief array'd by solitude ani care.

Pard in just heav'n !-But where the heart is (orn, The human drop of bitternefs will stell; Nor can we lose the privilege to mourn, Till we have lost the faculty to feel. you, xi, 1 †

66	poetry. Sept. 12.	
	R ligion came! thou sister of the fkies,	
	And quickly lift thy salutary rod; N or let this daring argument of sighs,	
	Too boldly tax the justice of my God.	
	O! make me, then, all-seeing pow'r, resign'd Thy awful fiat humbly to receive ;	
	And O! forgive the weakness of a mind	
	Which feels as mortal, and as such must grieve.	
	And you, ye dames! your soft'ning tears employ,	
	You who can paint the sorrows of the blow :	
	For who that ne'er throbb'd with a mother's joy,	
	Can guess the depth, the wildness of her woe. W. W.	
	EFITAPH ON LADY AB-R-V-Y.	
	Young, thoughtlefs, gay, unfortunately fair, Her priot to please, and pleasure, all her care;	
	With too much kinduefs, and too little art,	
	Pone to indulge the dictates of her hearts	
	Flatter'd by all, solicited, admir'd,	
	By women envied, and by men desir'd; At once from all prosperity the's torn,	
	By friends deserted, of defence fortorn,	
	Expos'd to talkers, insults, want, and scorn.	
	By every idle tongue her story told,	
	The novel of the young, the lecture of the old. But let the scoffer or the prude relate,	
	with rigour or despight, her haplefs fare,	
10	Gool nature still to soft compaisson wrought,	
	Shall weep the ruin, whilst it owns the fault. For if her conduct, in some steps betray'd,	
	To virtue's rules too little rev'ience paid;	
	het dying still the thow'd (so dear her fame.)	
	She could survive the guilt, though not the fhame; Her honour dearer than her life the provid,	
	And dearer far than both, the man the lov'd.	
141	EPIGRAM.	
	Mon médecin me dit souvent	
	Que trop de vin me tue,	
	Er me detend absolument	
	De toucher les filles nues;	
	S'il faut renoncer au bon vin,	
	Et des brunes et des blondes, Adieu bon Monsieur médecin!	
	Je part pour l'autre monde, F.	
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Sept. 12.

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1792. on the production of nitre.

6.7

THOUGHTS ON THE PRODUCTION OF NITRE.

Few phenomena have occurred that are more unaccountable than those which relate to the production of nitre; and the experiments that have been made on this subject have afforded results extremely different, in circumstances that seemed to be efsentially the same. Hence it happens that the same procefs which produces abundance of uitre in one country, will yield none at all in another, though conducted with equal care.

I have never yet heard of an attempt to account for this singular peculiarity. It is in general supposed that nitre is a folsil production; that it is generated in greatest abundance in fat vegetable mould, which has been impregnated with animal substances; but though rich vegetable mould, impregnated with animal substances, yields nitre on some occasions in abundance, in other situations it . has been found to afford none at all. This seems to afford a satisfactory proof that animal impregnation alone is not the efsential circumstance for the production of nitre.

Vegetable mould is originally generated by the decaying of vegetable substances in it. This position I believe will not be disputed. If so, as there are a variety of vegetables that possefs qualities extremely different from each other, it ought to follow that the soil which has been generated by the decayed vegetables of one kind, may be very different, in certain respects, from the soil that has been produced by the decomposition of vegetables of another clafs, though they may be both equally capable of rearing the common kinds of plants that grow in Europe. Two soils, therefore, may be equally rich, considered as to their vegetative power, which are extremely difsimilar . in other respects.

68 on the production of nire. 3c/4.12. On this principle I think it is possible to account for the phenomenon already remarked. Nitre may be produced by the decaying of certain plants, and not by others. Some light is thrown upon this subject by the ollowing remarks and experiments, published in the fourth volume of the Memoirs of the Imperial Academy of Sciences and Belles Lettres, of Brussels, by M. Van Bochaute.

' It is well known,' he observes, ' that borrage, buglofs, pariciaria, and sunflower, often contain a good deal of saltpetre; but this is afforded in still greater quantities by several kinds of chenopodium, as appears by the following experiments:

' Two years ago,' says he, ' I made the analysis of a plant of the class pentandria, order digynia, which is called by some chenopsdrum ambrosioides Mexicanum, and by others botrys ambrosioides Mexicanum. Having visited the extract made from it in the balneum marie, some days afterwards, we were surprised to find the surface of that extract altogether covered with oblong chrystals, which upon examination with a glass, we found to be prismatic, like that of the best saltpetre. They detonated when thrown upon a burning coal, and fused. We put some of the extract upon a red hot fliovel; it detonated and fused also, leaving behind it a good deal of fixed vegetable alkali. We even went farther : we put some of the dried plant upon the same fliovel; it fused and detonated also. We tried in the same manner the botrys ambrosioides vulgaris, and this plant fused and detonated the same as the Mexiana. In fine, we procured the same plant from different apothecaries, they all fused and detonated equally with the other. From hence, adds he, we have concluded, that these two plants are very nitriferous; and that their conomy is a natural nitrerie, (nitr e work.) This, says 179 he, gra apı che rie be cor dee pre bу ----IN' C in co ım

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inalysis of a ich is called m, and by g visited the me days afface of that stals, which be prismatic, when thrown ne of the exd fused also, table alkali. dried plant d also. We ides vulgaris, as the Mexirom different equally with e concluded, nd that their This, says 1792. In manufactures. 69 he, is the more certain, as the botrys vulgaris is known to grow for ordinary, upon a dry sandy soil, which does not appear to contain saltpetre.'

The author recommends these plants to the attention of chemists, as deserving farther investigation. It is experience alone that can ascertain whether these plants could be cultivated with profit only for this purpose.

In the mean while I cannot help thinking it natural to conclude, that if these plants had long been suffered to be decomposed in the soil, the mould might thus become impregnated with saltpetre, from which it may be extracted by a proper procefs.

INTELLIGENCE RESPECTING ARTS, AND AGRICULTURE-

Sheep of Colchis.

COLONEL FULLERTON, so well known for his active exertions in the military line in India, has, for some time past, become a peaceful citizen, applying his active talents to the improvement of agriculture and manufactures. About two years ago, he imported from Colchis that breed of fheep so long famed in story for their fleece. It appears from his experience that this fleece is more to be valued on account of the *quantity* than the *quality* of the wool. It is of the long combing sort. The animals themselves are strong made and hardy. Their lambs in particular are found to thrive better, and to fatten more easily, than those of any other breed with which he had an opportunity of comparing them.

New improvement in the iron manufacture.

HE has also discovered an improvement in the process of smelling iron, that promises to prove highly beneficial to that manufacture in this country. Its effects are, that it will considerably diminish the quantity of fuel consu-

70 improvements in India. Sept. 12.med in that operation, and consequently lower the expence of that procefs, the iron coming from the furnace equally pure after one smelting, as it can be made by the operations now in use, by being smelted twice at least. There is also reason to believe that the iron will be rendered thus softer and more malleable than it now is; as it is well known that metals in general are rendered more brittle the oftener they are fused. The particulars of this procefs will be communicated to the public as soon as the Editor finall be authorised to do so.

NOTICES OF IMPROVEMENTS NOW GOING ON IN INDIA.

THE views of Dr Anderson, and the way in which he promotes improvements in India, are beautifully illustrated by the following letters.

crom John Brailbwaite, 10 Dr James Anderson, physician general, Madras.

DEAR SIR,

I RETURN YOU many thanks for the communication of vour farther correspondence in relation to the silk businefs. I think it promises fair; and were we once clear of war and famine, I think would certainly succeed.

The times have been, and are against it. We have not hands at present sufficient for agriculture; the half of these circars are a desert waste, and in some measure owing to the great manufacture of cloth, which, in proportion to the population of the country, takes too many hands from agriculture.

I believe the first great object to attend to in all countries, is to procure abundance of food at a cheap rate, which soon creates abundance of people, and when you have abundance of food, and a superabundance of people, then is the time to set on foot, and encourage manufactures; but I fear in the present state of these countries, let the industry of individuals be what it may, no new tunity ed to lauda you s when *Fort* DE As I

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1792. improvements in India. .70 manufacture can be successfully established ; but, on the contrary, those so long since established, must decline. 1 am, 6c. Feb. 19. 1792.

From James Anderson, 10 Colonel Braithwaite, commanding the troops north of the Kisina. DEAR SIR,

I AM favoured with your letter of the 19th instant, and it is with pleasure I acknowledge the receipt of sentiments so conformable to my own, in as far as the arts, agriculture, and commerce, justly balanced, are necessary for the multiplication of our species; but you know me better than to suppose I have much expectation of introducing improvements, which, from me, can only be received as speculations, in the present distrefsful situation of the country.

On the contrary, when you observe the opening' of the business of cultivating silk, under the circumstances of war, you will acquit me of establishing a new culture under the circumstances of famine, because I have taken care to make allowances for such serious impediments.

The whole amounts to this, that as we have only a certain time to figure on the stage, it occurred that if I did not employ the present moment, the future might escape my powers; and thinking I had something to say, that at some future period might be converted to utility, I have ventured to engage in the service of posterity.

In this view of being useful, I thall embrace every opportunity of distributing nopals for the purposes I have mention-ed to government ; and knowing that you possels the same laudable disposition, you will not be surprised that I send you some by every tappal for your garden, and the silk when you are better able to receive it. I am, &c. Fort St. George, Feb. 26 1792.

From James Anderson to Nathaniel Webb esq. DEAR SIR,

As I understood there was a famine in your circar, I did not presume to trouble you with the eggs of silk worms in the late cold season, when they might have been safely

improvements in Iulia.

Sept. 12.

72 improvements in finance, under cover of a conveyed to even a greater distance, under cover of a letter; for it is needlefs to suppose that they are bruised when we every day see those eggs that get addled, from any cause whatever, soon thatten and collapse, without any external prefsure.

I know that there are mulberry trees enough in your district to supply leaves for a large investment of silk, but the distrefs of the inhabitants I am truly sensible must have involved you in an infinite deal of trouble and anxiety.

I will only observe that nothing appears to me so well calculated to obviate the frequent repetition of such weighty calamities as a diversity of employment for the lower clafses of the people.

No real attempts having ever been made to better the natives; and their whole subsistence consisting of grain, which can only be raised by rain happening to fall at certain stated seasons, it is obvious that if we can enable them, by the circulation of cafh; which must attend the culture of silk, to purchase grain from other countries when their own crop fails, we fhall render au efsential service to the human race here.

the human race here. I will not farther obtrude on your cares, than to tell you, that whenever you are sufficiently disengaged, Mr Binny, or Mr Roxburgh, will supply you with eggs; or, which is much nearer yoa, Mr Haliburton at Vizagapatnam, to whom I mean to forward some in a few days; and your establishing the Bungalo will at least save a dozen children from being starved. I am, doc. For St. George, Feb. 15, 1792.

From Robert Andrews to James Anderson esq.

DEAR SIR, I HAVE been favoured with your letter, forwarding a supply of silk worm eggs, for which I beg you to accept my thanks; my family have encreased much, and continue to multiply very fast.

multiply very fast. The late heavy rains, however, have caused the death of many hundred worms, which I conceive may proceed in some degree from the dampnefs of the walls of the off wh to the ha co the sill the

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varding a supply to accept my and continue to

aused the death e may proceed he walls of the 1702. improvements in India. 7.5 house, which are made of mud, in which the worms are

kept. I am yet very unsuccefsful in the businefs of winding off the silk, although I have lately acquired a third person who was exprefsly sent, as he says, by Tippoo to Bengal, to perfect himself in this branch of the businefs. He says the silk is of a much slighter texture than that which he has been used to wind off, either in Bengal, or the Mysore country; and the silk weavers who have attended two or three generations of the worms, under me, observe, that the silk first produced by the worms was much stronger than that which they now yield.

It in your power to instruct me in this very material point, I thall esteem myself much obliged, for without it my zeal in the farther prosecution of the businefs will be much damped. I remain, tre. *Trittelinepoly, Nev. 29*. 1791.

From Dr James Anderson to Robert Andrews, esq. Sin,

It will be a wretched businels indeed, if, after having done so much, your zeel should slacken on the observance of a circumstance which all the world knows, that the silk worm is injured by damp and wet.

In Europe there is but one crop a year, and you see by Mr Glafs's letter they have only three good crops in Bengal; vet here, the climate is so much more favourable between 70 and 100 degrees of heat, that the worms pafs through seven or eight evolutions, and yield more good crops than in either of those countries.

The silk of my last breed on the setting in of the rains, was like yours, much worse than ever I had seen it; neverthelefs I made the boys wind it off as well as they could, and the silk weaver has twisted it into excellent thread, of which I am making a purse.

It is not only the damp and wet, but a foul air is likewise generated thereby, which kills the worms; and, as they decline in health, the quality of the silk is affected. However, although the rains have continued in a more violent degree than has been known for many years bypast, by directing a greater attention to the neatnefs and airing work xi.

improvements in India.

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Sept. 12. 74 of the house in which they are, although likewise walled with mud, my present breed are perfectly healthy, and now spinning the most beautiful cocoons; I therefore trust that you will not be discouraged, but depend on a zeal and attention like yours, being crowned with uncommon success.

I have found nets to fhift the worms from their litter, very convenient and useful, as it is only necessary to lay the net upon the worms, and fresh leaves upon the net; and as soon as they have fastened on the leaves, to remove them with the net to a clean basket.

In this way one person will do more, in clearing the worms from litter, and with greater case, than twenty could; before the nets came into use. I am, br. Fort'St George, Dec. 1791.

Dr James Anderson, to the bonourable Sir Charles Oakeley, bart. acting governor, and council, Madras. HONOURABLE SIRS,

THAT you may not be insensible to the close attention. so delicate a matter as the establishment of a silk manufacture requires, I have the honour to inclose a letter from Mr Andrews at Tritchinopoly, with my answer

I have likewise the pleasure to tell you, that captain. Mackay at Arnee, is winding silk on a reel, which I sent him by a native who can use it,-and understand that Captain Flint still preserves the breed of worms which I sent Mr Anderson at Tiagar, as before stated.

The eggs distributed during the late hot season have hatched at several stations, as far as Palamcotta to the' south, and Ganjam to the north, but lost again for want of accommodation.

You will see by Mr Andrews' letter, that mud walls are affected by rain; but I have devised a method which suits the nature of the worms in this climate all seasons of the year, and of the most easy construction, being no other than an extensive roof, supported on pillars, and' walled round with bamboo matting, which is sufficient to' break the force of high winds, without preventing the paf-" sage and circulation of air.

Sept. 12. ise walled althy, and efore trust on a zeal incommon

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mud walls hod which all seasons being no illars, and fficient to ng the paf-

1792. plan for relieving the blind.

75 A bungalo of this sort, in my garden, seventy feet in length, and fifty in breadth, is now employed with every advantage; and contains a complete establishment, as I have placed in it an upper servant, with a dozen children under his direction, a schoolmaster to teach the children to read, write, and keep accounts, and a silk weaver.

Some of the children are not more than three years old, and yet they feed the worms, and remove them from their litter, with the utmost care and attention,-so prevalent is the force of imitation on innocent minds.

The business of managing the worms, and winding the silk, requires no farther attention from me; as the latter is so well executed, that the silk weaver has reeled it off again, on bobbins, and spun it into thread.

I therefore recommend that you cause a similar lodgement to be erected, and a similar establishment made, at every one of the mulberry plantations, although I am sorry to observe a total neglec: of the wells of water, the attention to which I so earne tly recommended.

I am, Oc. Fort St. George, Dec. 6. 1791.

To be continued occasionally ...

A'PLAN FOR RELIEF OF THE INDIGENT BLIND.

1.2.

The following plan for affording relief to a numerous clafs of men, who are incapable of earning their bread in the common way, seems to be so well calculated for efficeing the objects in view, that the Editor most chearfully lends his aid to render it as generally known as possible ;. and begs leave to recommend it to his benevolent readers as an object highly meriting their attention. Any hints tending to render the plan still more perfect, will be thankfully received.

Or all the objects which daily call for the exercise of compassion, there are none more deserving of it than the indigent blind. Their uncomfortable situation being the immediate hand of God, is the more entitled to pity. Can. we conceive a reasonable creature in more deplorable cir.

Sept. 12. plan for relieving the blind 76 cumstances than to live in constant darkness; to want daily bread; to have no friend to give them lodging or support ; and to be obliged to have recourse to begging for the mere necessaries of life ? Can those who enjoy the inestimable blefsings of sight, reflect for a moment on such a forlorn condition, and not have their gratitude awakened, and all their tender feelings excited ? Can any thing possibly be done, to alleviate the affliction of those of their fellow creatures who are deprived of sight; and who would not be happy to contribute towards it ? Must it not be the most sublime rleasure which the mind can feel, to administer to the comfort of so unfortunate a clafs of the human species? Institutions have been set on foot in different places, both at home and abroad, for the relief of the INDIGENT BLIND; and it is proposed to establish something of the same kind in the city of Edinburgh, which, it is not doubted, will meet with universal approbation, and to which numbers only with for an opportuni-Ly to contribute.

Three objects are to be aimed at in affording relief to the poor blind: 1st, to furnith them with some employment which may prevent them from being a burden to sociey: 2d/y, that the employment be such, as gently to engage the mind, without fatiguing it, and by diverting their attention, to make them lefs a burden to themselves: and, 3d/y, that they be taught the principles of the Christian religion, which are so nobly adapted to afford consolation under their hard lot, and to render them easy and contented.

To answer these benevolent views, it is proposed to open a school for instructing the blind in music, if they thall be found capable of learning it; and for teaching all of them the art of making whips, or some branch of the T75 cot doc

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Sept. 12. is; to want n lodging or to begging ho enjoy the moment on eir gratitude ed ? Can any tion of those f sight; and ds it ? Must he mind can tunate a clafs n set on foot d, for the red to establith f Edinburgh, versal approan opportuni-

ding relief to some employdentosociey: titly to engage ting their atnselves: and, the Christian d consolation easy and con-

s proposed to music, if they br teaching all branch of the 1792. plan for relieving the blind. 77. cotton or linen manufactory, and instructing them in the doctrines and duties of Christianity.

As many may be disqualified, by age and infirmity, from learning any of these arts, and are incapable of doing any thing for their subsistence, it is proposed to afford them some pecuniary aid; in the distribution of which, particular attention will be paid to the moral character of the objects.

As soon as a fund can be raised, an advertisement shall be inserted in the newspapers, to call the indigent blind of this city and suburbs together, and ask which of them will accept the offer; and to distribute them into cleases of learners of music, learners of mechanic arts, and such as are disqualified for any art.

That several rooms be engaged, one for the blind to be instructed in music, and the rest for those who are taught the other arts.

That those be selected who are likely to learn music, in such a degree as to earn their bread by it, or to teach others.

That spinets and fiddles be hired; during one quarter, for the blind to practise in their own houses, and a piano forte be procured for the room in which they are taught : after the first quarter, that spinets and fiddles be purchased for as many as are found capable of making proficiency, to be lent them till they have learnt their art, and then to be given them.

That when they are thoroughly instructed in music, and begin to gain a livelihood by it, it is proposed to give them a suit of clothes, and decent linen.

That some person who lives in family with the blind be taught to read and write music.

78 plan for relieving the blind. Sept. 127. That the masters who are so generous as to offer their labour gratis, be paid something for their trouble; and it is to be hoped that that pay will increase, when the good effects of the institution are seen.

That the musical pupils be likewise taught some mechanical employment, as an agreeable variety, and that they may earn something during the time they are learning music.

That all the blind be taught church music who are capable of it; and it is proposed to have a sermon annually for the support of the charity, when the blind musicians and singers will display to their benefactors, their musical proficiency.

That the blind be supplied with work by the managers of the institution; who are to pay to each artificer the whole gains arising from his labour.

That the most diligent receive rewards as an encouragement, such as rlothes, &c.

That prayers be composed for the use of the blind, adapted to their peculiar situation; and that they be taught these prayers, and other duties, every Saturday: that seats be provided for them, in one of the churches, where they may attend divine worfhip.

That after learning their trades for six months, the blindbe incorporated into a society, each of whom is to contribute twopence weekly from his gains, as a provision for himself in old age or sicknefs; that he may, when sixty years old, or disabled by disease, receive three or fourfhillings weekly, as the afsociation box will afford. Byan example of this kind, it is hoped that those lazy slothful poor, who enjoy the sense of seeing, and yet choose to live meanly ou common alms, will be covered with thame, and excited to industry. The rity,

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Of Liver have and e very] Eight whips, teen b totaliy fleets, boy le mops six ma portat our fe or the dered celves, Sept. 127. to offer their

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of the blind,, that they be ry Saturday: he churches,

ths, the blind n is to conprovision for when sixty hree or fourafford. By lazy slothlyet choose covered with 7792. plan for relieving the blind: 79 That an annual report be made of the expenditure of the money, and the good effected during the year; and when the institution is established, that their proceedings be published.

That the money collected be laid out on proper security, and trustees appointed for the management of it.

This establishment is intended for relief to the youngest of the blind, as soon as they can learn music, which perhaps may be at nine or ten years of age ;--to the middle aged, by teaching them some art by which to entertain their minds, and to gain an honest living ;--and to the old, who are unable to learn any thing, by affording them some afsistance in clothes and money. One great object of the institution is to attend to the morals of the blind of all ages, especially the young.

Of late, an institution of this kind has been founded at . Liverpool, where forty-three blind poor, of both sexes, have been engaged in different branches of manufactures, and earn, weekly, from 3s. to 6s. each. They appear very happy in this new method of spending their time. Eight are employed in making he ting, jockey, and ladies whips; which are sold for the benefit of the charity : thir. teen blind women spin linen yarn, and reel it; another, totally blind from infancy, cuts out the cloth into fhirts, flicets, and sacks, and makes it up : four blind girls and a boy learn to play upon the harpsichord ; two make woolen mops; eight old people pick oakhum for caulking fluips; six make baskets and hampers, and cover bottles for exportation; and two make rope bears. hus a class of our fellow-creatures, who were burdensome to their friends or the public, and unhappy because unemployed, are rendered useful members of society, and made happy in themselves, by being relieved from extreme poverty; and

Sept. 12. to correspondents. ۰. + 80 what is worse than poverty, that languor and wearinels of life, which must infest minds that are vacant, or employed only in brooding over their own misfortunes.

TO CORRESPONDENTS.

The observations of Timothy Thunderproof are received, and shall appear as soon as convenient.

as soon as convenient. The interesting communication by *W.W.* is come to hand, and fhalf have a place in due course. If the author could supply the date of the letter, and the name of the place where written, it would render it still more valuable. The other paper fhall be sent as desired, with some pri-

more valuable. I ne other paper mail be sent as desired, with some pri-vate notices concerning it. The Editor regrets that the elaborate performance with the signature Antiphen does not suit his miscellany. It will be left at the Office till called for.

called for. Ruticus is rather too harfh in some of his expretisions. His effary pof-sefses merit; and if put into a more engaging drefs it fhall have a place. The spirited letter of W. S' fhould certainly have had a place very early, were not the Editor determined to avoid altercation and long dis-putes. He agrees entirely with the writer, in thinking that it is prema-ture to form a judgement, at present, as to the events to which his letter relates. It will be time enough to decide on the tendency of the measures now going forward after these troubles fhall evolds de, when some light may clear up the chaotic mais which is in such high agitation at present. At that time, or on any other subject, the Editor will be glad of this gentle-man's correspondence. The verses by Marina are too defective in their present drefs for subli-

man's correspondence. The verses by Marina are too defective in their present drefs for publi-cation. Why did not the friend of this young writer revise the lines, which are not destitute of meric, before they were sent away P The Editor is much obliged to a Sbemaker for his obliging verses; but the use thinks are millionetting on publication.

the contor is much conject to a commarker for his outgoing verses; but they are too highly complimentary for publication. The lines by Zachary Boyd are received. That kind of burlesque do:s mot.suit the views of the Edit m.



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nt drefs for publir revise the lines, away? liging verses; but of burlesque do:s 93. THE BEE, or *LITERARY WEEKLY INTELLIGENCER*, vor Wednesday, September 19 1792.

AN ACCOUNT OF THE SOCIETY OF ARCADIA AT ROME.

BY ABBE TOURNER.

Continued from voi. x. p. 200.

In the republic of Arcadia, as in every other establifhment calculated for the regulation of human affairs, experience discovered defects that were not foreseen. Great care had been taken to render the laws of Arcadia as simple and perfect as possible; and it was hoped they would have tended to preserve unanimity among the fhepherds for a long time; but this was soon found to be impossible. As the progress of this society exhibits, in miniature, a very exact picture of what may be expected to occur in every other undertaking of the same sort, in which regulations, at first simple and easy, become complicated and difficult of execution, it will not prove unentertaining to trace it step by step, with a careful discrimination of circumstances.

VOL. XI.

society of Arcadia. Sept. 19. In virtue of the first law, every Arcadian has a right to bring his complaints before the general afsembly; but to avoid tumults it was agreed, that the complaint fould be given in first to the custode, who was obliged to read it in the general afsembly, although it should contain things against himself. All anonymous papers are rejected; only those are minded which are signed by the recurrent himself, and if the affair be of consequence; things of small importance are verbally received by the custode. However, as it did happen sometimes that individuals carried complaints, and had recourse to the community, without passing through the channel of the custode, disputes hence have arisen ; and often the meeting broke up without any other conclusion, but the alienation of their former reciprocal affection.

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The choice of a custode, mentioned in the second law, has several times given rise to disputes. Some pretended that at the end of each olympiad a new custode should be created, and that he might be removed even before the olympiad was out. The authority of the custode has been likewise contested; he being sometimes accused of being too arbitrary, at other times too negligent, at others too ambitious. The constant practice has been that the custode is obliged at the end of the olympiad to lay down his employment, consign the seal of the afsembly, and the keys of the Bosco Parrasio to the oldest of the Arcadians then present, and divest himself of all authority, until, by secret ballot, it shall appear whether the same custode is to be chosen again or :emoved.

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Sept. 19. cadian has a general afgreed, that rst to the general afngs against ected; only e recurrent e; things of the custode. that indiviurse to the the channel n; and often r conclusion, procal affec-

the second utes. Some mpiad a new might be reit. The aue contested; oo arbitrary, oo ambitious. he custode is lay down his isembly, and est of the Arof all authopear whether or semoved.

society of Arcadia. 1792.

83 But the greatest blow the trauquillity of Arcadia ever had, was on account of the interpretation of the third law, in regard to the election of the colleagues; At the beginning of the institution of the Arcadia, the custos alone regulated all the busine's of the afsembly; the number of the Arcadians increasing he called for an afsistant, and the community decreed be might depute two sotto custodi at his pleasure. But even these two not being sufficient to undergo the trouble of giving intimation to the fliepherds, or of going about to collect their opinions for the regulation of such businels as might daily occur, the general meetings not being at that time very frequent; the custode was authorised to choose, twelve of the most steady and most experienced Arcadians, to be changed every year, under the name of vice custodi ; each of which was to direct a certain number of Arcadians, who, divided as it were into centurie, depended on the regulations of their centurion. A pro custode was besides added to the custode, who might afsist him in his daily labours, act for him; and represent him in case of illnefs, absence, or any other urgency that might hinder him from attending to his employment. It was afterwards thought fit to subregate the colleagues to the vice custodi; which latter title was bestowed upon the person who presided over any of the colonies. Alfesibeo, strictly to adhere to the letter of the law, in orbem eligito, &c. took six of the vice custodi of that year to act as old colleagues, and named six new ones. It had been thus practised for four olympiads, when, in the year 1711, on the 15th of June, after the publication of the new six col-

84 society of Arcadia. Sept. Igi. leagues, Eulibio Brenteatico (Paolo Rolli*,) a young man of great vivacity, who had acquired much fame both in the public rehearsals, and in singing poetical compositions extempore, rose up against the custode, pretending he had not fulfilled the law, because amongst the six new colleagues, some had been named who had! held that employment before. The complaint was neglected at first, as inconsistent with the consuetude; but Eulibio insisting, and a strong party forming in his favour ;. in order to adhere to what is ordered in the sanction of the laws, the opinion was. afked of three experienced Arcadians, for the purpose of directing the general assembly to a more certain: determination. These were Opico Erimanteo, (Gra-

• Paolo Rolli a few years after left Rome. A cardinal who was his: friend, sent to invite him to drink. chocolate with him one morning; after talking of several things, the cardinal began to persuade Roll that he hould change air on account of his health. The poet was much surprived at this discourse, and much more on the eardinal's insisting on his, going to another country for the benefit of the air, as he never had enjoyed better health. However, considering that the cardinal belonged to the Inquisition, and that his concience reprosched him for having uttered with imprudence, some free propositions in regard to religion, Roll took the him that his good friend had wilhed to give him, without revealing the. inviolable secret of the Inquisition, immediately left Rome, and came over to Ergland, where he was perhape the first man of letters that undertook traching Italian, sid, if I were to except Fincenso Martinelli, perhaps, I might almost say the last. While in Eogland Rolli made any elegant translation of Milton's Paradise lost into Italian blank verse.

I am no strarger to the fame that *Barretti* has acquired among a fews; but I am not, because of this, disposed to alter the above opinion. For this sufficient reasons might be afsigned, were the subject deemed worthy of the attention of the reader; or were it not an ungracious tafk tepoint out the faults of any one. From these considerations I forbear to enlarge, though to have said lefs, I thould have thought, would be blameable. \$79 vina and who how reas ed, P of b the low pea his din, fron 1 sem into the on t coul that seer the the sem Opi for out our grea

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who was his morning ; afie Rolli that he much surpriinsisting on his ever had enjoynal belonged tohaving uttered ion, Rolli took it revealing the. me, and came ters that under-Martinelli, pertolli made an ink verse. among a few ;

e opinion. For et deemed worgracious tafk teons I forbear to rould be blame1792. society of Arcadia. 85. vina) Corsildo Alfejo, (Avvocato Antonio Colloretti,) and Mirtilo Dianidio, (Dr Pier Jacopo Martello,) who gave their opinion in favour of the plaintiffs; however, the general afsembly having examined the reasons on both sides rejected this opinion, and ordered, that what had been customary fhould be observed.

Perhaps it may be thought that the desire; in some, of being distinguished by the rank of colleague, was the cause of this tumult, and of the schism that followed; and Alfesibeo took great pains to make it appear so in the narration he has introduced of it inhis work, Stato della Basilica di S. Maria in Gosmedin, &c.; but these disturbances are to be traced from an entirely different source.

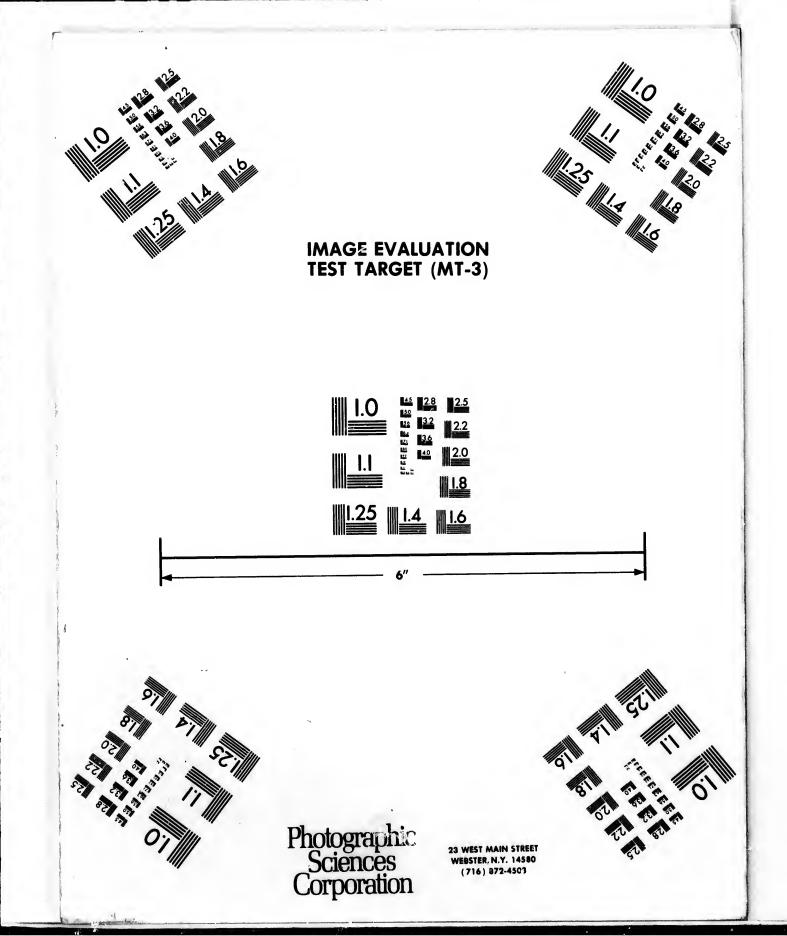
Alfesibeo, with the approbation: of the general afsembly, having compiled the laws, which were put into Latin by Opice, the commission was given to the latter to prepare a Latin oration to be repeated. on the occasion of the promulgation of the laws. He. could not avoid fhewing it to the custode, who thought that Opico had made use of some expressions, which. seemed to import that he not only was the author of the Latin version, but likewise of the compilation of the laws. It was therefore read in the general afsembly, who redered several corrections, which Opico promised to fulfil; but when the day came for the promulgation of the laws; he repeated it without any of the proposed alterations. This behavia our of Opice displeased not only the custode, but the greatest part of the Arcadians. The misunderstanding increased, when a few days after, Opico distributed his Latin Opuscula, amongst which were the laws

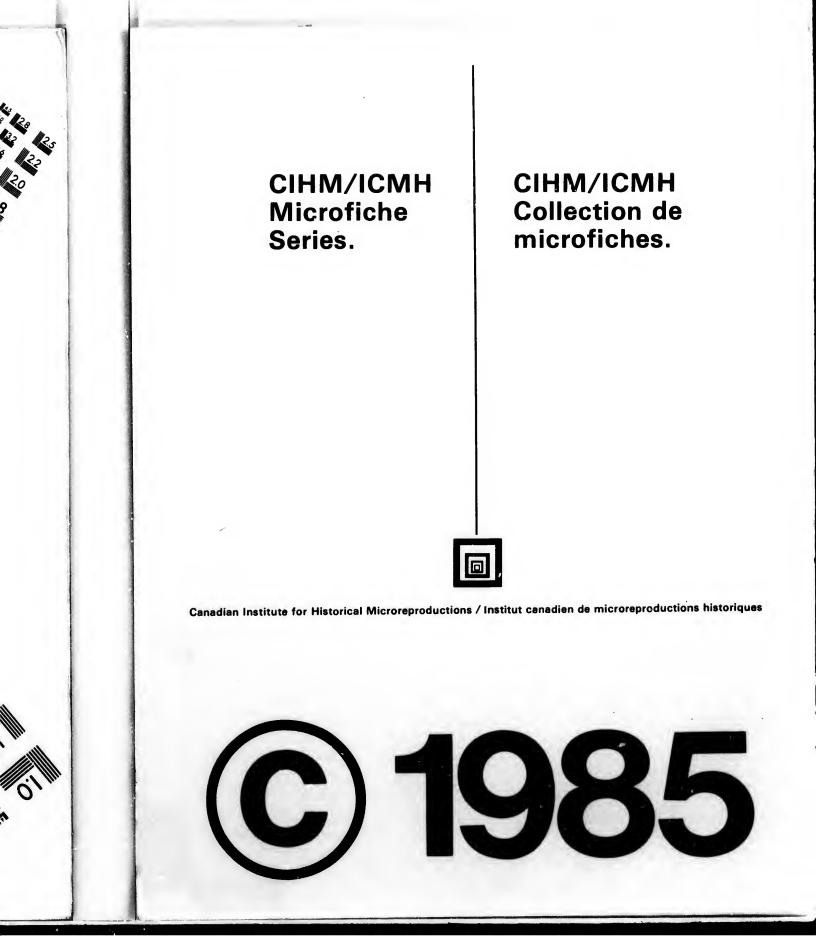
Sept. 19-86 society of Arcadia. of Arcadia, followed by the oration, with the title, . J. Vincentii Gravinae, inter Arcades Opici Erymanthaei, pro legibus Arcadum oratio ;' which he several times reprinted without ever changing any thing, as if it had been admitted by the afsembly. In consequence of such proceedings the college newly instituted called Opico to give an account, who not being able to deny any circumstance that was laid to his charge, promised to make a new edition of the oration, to which he was to prefix a declaration that the laws were not his production, and that he only drefsed them in the Latin garb. This declaration was presented by him, and is still to be seen in the serbat ojoor register office of Arcadia. The custode and the college were satisfied with the readine's of Opico ; but whether it was involuntary neglect or determined contumacy, it seemed he never more thought of it; moreover, whenever he talked of the laws of Arcadia with his friends, he always hinted his being the author of them, and he explicitly says it in a letter to Orildo Berenteatico, (Marchese Scipione Maffei.)

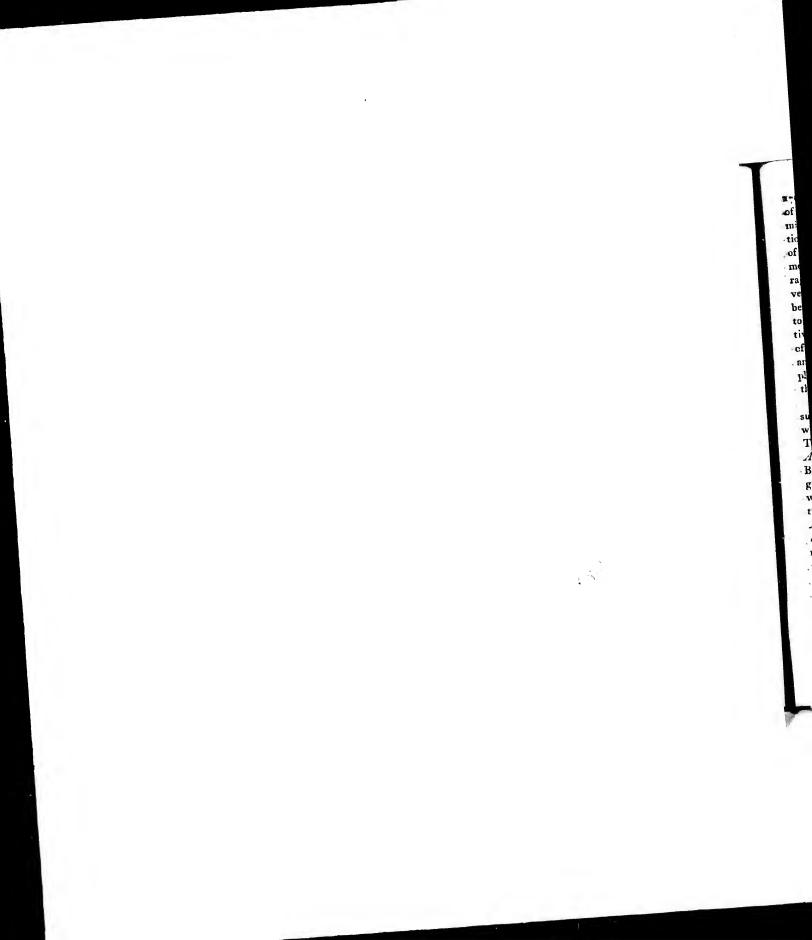
These disagreements, by little and little, alienated the minds of Opico and Alfesibeo, so that there was not any longer between them the former cordiality. It may be added to all this, that the authority of custode having increased, so as to have become in the opinion of several a reputable place, many began to aim at it; nor was every one pleased that Alfesibeo, by repeated elections, fhould be a perpetual custode. Opico, who was indeed a man of greater knowledge and parts than the most in his time, invited to his house a band of young men of great brilliancy h the title, ici Eryman-1 he several thing, as if consequence y instituted being able his charge, oration, to at the laws ly drefsed on was prene serbat ojo de and the is of Opico; or determithought of laws of Aris being the t in a letter e Maffei.) e, alienated t there was r cordiality. rity of cuscome in the ny began to t Alfesibeo, ual custode. knowledge vited to his brilliancy

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society of Arcadia. 87 #*92. · of genius, and ardour for study, who gave very promising hopes, of becoming, one day, by his instructions, great luminaries of literature ; so that several of the Arcadians, of a more mature age, delighted to meet with them in Opico's habitation ; and to encourage them more, had them, by little and little, received amongst the Arcadian thepherds, until their number increased so much as to begin to give suspicion to the custode, and make him very jealous and attentive. Hence he took care to keep out of the number of the colleagues those young men of Opico's band ; and hence the opportunity was taken for the complaint by Rolli, coloured with an apparent zeal for the observance of the laws.

The general assembly decided in favour of the consuctude, and Alfesibeo's party triumphed in that day, . which kept in suspence the greatest part of Rome. The reclaimants were received and favoured by Aquilio Naviano, (Don Livio Odescalchi, duke of Bracciano, Sc.) who made to them a donation of a garden, out of the Porta Flaminia or del Popolo, where, after having chosen Aquilio for their perpetual custode, they pretended to constitute the true Arcadia, and continued to act in all respects as Arcadians. The two parties went to law. The greatest number of the Arcadians were unanimous, and constant in difsenting from the schism; and, excepting very few, who chose to remain indifferent, all the others declared, in writing, their fidelity to Arcadia, and perpetual war to the schism; the colonies especially flewed their particular zeal, many of which had been strongly sollicited by the schismatics.

188 society of Arcadia. Sept. 19. The law suit lasted three years, when Aquilio died, and the schismatics finding they were very near losing their cause in the court, made a legal renunciation of the suit, and pretensions; and laying aside the name of Arcadia nuova, they alsembled under the name of Academia Quirina, in the gallery of cardinal Lorenzo Corsini, who was afterwards pope Clement XII. by whose influence they had given up their pretensions. Thus Arcadia recovered its tranquillity which has ever after been undisturbed.

I must observe to you, that the unanimity of the Arcadians has always been insurmountable in inviolably observing that part of the law which hinders the Arcadians from having a patron; for when Arete Mellio (John v. king of Portugal) was acclamated, he sent a present of four thousand crowns to the Arcadia, and an offer to be their patron; they received the present, which was employed in buying the present place where the Bosco Parrasio exists, but they made the royal fhepherd understand it was against the laws of Arcadia to have a patron.

It has not been possible to observe the tenth law as strictly as it was intended, on account of the great number of the Arcadian shepherds, for whom there could not be kept a fixed number of lands, which, on the contrary, have been increased, and the denominations taken not only from the country of Arcadia, and the neighbouring provinces, but this imaginary dominion has been extended to all those countries that have belonged to the Greeks, even at the time of the Macedonian empire under Philip, Alexander, and their successors.

To be concluded in another article.

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1792. on the generation of fiftes.

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HINTS RESPECTING THE GENERATION OF CERTAIN KINDS OF FISHES.

Respectfully addrefsed to the readers of the Bee in India, for farther elucidation.

Few objects can be more interesting to man than the history of nature; and in that department, one of the most curious of its branches is that which respects the generation of animals, and the circumstances that tend to accelerate the growth, or fhorten the natural period of existence of animated beings.

That there are many modes of generation which are unknown to us, and which differ very much from that with which we are best acquainted, I have no sort of doubt, as well as of flortening or protracting the usual existence of animate beings. The procreation of polypi, of earth worms, and of some kinds of serpents, are examples of the former; and the preservation of scalls alive for many years, during which time their vital powers have been entirely suspended, affords a striking example of the latter.

But an anomalous case respecting the generation of certain kinds of fifhes, which has been reported to me by various persons who have been in India, has appeared to me so contrary to the ordinary course of nature, that, without disputing the facts, I choose to suspend my belief in them, till I fhall have such authority as fhall remove all kind of scepticism on that head. It is with that view I take this mode of applying to the readers of the Bee in India, for farther vol. xi. M t

90 on the generation of fiftes. Sept. 79. elucidations respecting this very curious subject; and with that view I shall state plainly the facts that have been reported to me concerning it.

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About four years ago 1 was told by a gentleman, who had not himself been in India, that, at Bombay, he had been assured by several persons who had lived there a considerable time, that no sooner did the rainy season set in, so as to form pools of water in hollow places, which had been for many months quite dry, than the natives used to go our and catch great quantities of a certain kind, or kinds, (I cannot be positive) of fishes, which were eat by all the people with great avidity. They all assured him this was a fact universally there known; they afserted that these fishes were found in every pool of water, most of which had no sort of communication with river water or overflowing tanks, but had been formed entirely by rain that had fallen from the clouds.

This appeared to me so romantic a story that I did not venture to mention it to any person for a long while; nor did I even think it afforded foundation sufficient for troubling any of my correspondents in India about the matter.

At length I ventured to mention the subject to a gentleman who had been some years in India, as a wonderful story I had heard, but to which I attached no degree of credit; and to my no small surprise he afsured me the fact was so,—said he had often eaten of the fifth himself; and described them as being a small fifth, very like the European minnow, but different from it in some respects: he said they were caught in vast quantities, not only on the island Sept. 19. s subject; e facts that

gentleman, t Bombay, s who had no sooner m pools of for many to go out l, or kinds, e eat by all all afsured own; they in every ort of comring tanks, had fallen

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ubject to a ndia, as a n I attachill surprise d often eatn as being nnow, but said they the island 1792. on the generation of fifter. 91 of Bombay, but every where on the Malabar coast, in the same manner.

Encouraged by this circumstance, I ventured soon afterwards to afk at a gentleman who had resided in India for nearly twenty years, in the medical line, if ever he had heard of a fact of this nature. He told me it was perfectly true. That in the neighbourhool of Madras, he had often seen the blacks go out, in a day or two after the rains had commenced, to the adjoining fields, now full of pools of water, to catch fish in them, and that they always returned with abundance. That he had often eaten of these filh,. which were very good. He described them as a fhort flat kind of fifh, not of the nature of a flounder,. but rather resembling a John Dorie, having the thin edges, not the flat side, above and below when swimming. Since then, I have conversed with two other gentlemen from India, who talk of this as of a thing universally known, though they never had particularly investigated the question ..

These concurring testimonies, though not sufficiently precise to afford satisfaction, seemed to me sufficient data for instituting an inquiry respecting this extraordinary phenomenon. I suspect there must be some inaccuracy or exaggeration, which, if fully explained, might serve to abate something of the marvellous of this account; and I own I fhould be very glad to have the matter so stated as to have precise ideas on the subject.

Though all the persons above named agreed respecting the fact of fifh being actually caught in pools of rain water, in a few days, at the most, after the

on the generation of fifbes. Sept. 19-92 rain began to fall, and of such a size as to be fit for the use of man, they differed as to the kind of fiftes caught, though each of them seemed to know of only one sort. The first said it was a long and small fifh, though not of the nature of an eel, yet approaching towards it in shape. The other two described them as above, and the others had not paid such particular attention to them as to be able to speak with any degree of certainty. This, and other circumstances, convinced me that none of the gentlemen had remarked this phenomenon with the precision of naturalists. None of them even seemed to know if the fifh thus caught were to be found in that country at other times in the tanks or rivers ; or if they were caught only in the particular situation above described, though they all seemed inclined to be of this last opinion, as they never remembered to have seen them at any other season. An inquirer is often subjected to great inconveniencies from the inaccuracy of the observers who furnish him with information.

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They were all, however, quite positive that these fifthes were found in abundance, in pools that were formed entirely of *rain* water, without any communication with tanks or rivers. If this fact thould be clearly proved, it would open up a field for curious speculation to the naturalist. Even on the supposition that the kinds of fifth thus caught were found in Indian tanks or rivers, the elevating the spawn of such fifth into the air, by means of the vapours exhaled by the sun, would be a phenomenon of which we are acquainted with no other parallel in nature. If we could suppose the spawn thus carried into the at-

Sept. 19to be fit for he kind of to know of ig and small et approachvo described id such parspeak with her circumentlemen had ision of naknow if the t country at if they were: n above deto be of this to have seen is often sube inaccuracy information. ve that these ols that were ny communiact should be field for cuen on the supht were found the spawn of vapours exhan of which we in nature. If ed into the at-

1792. on the generation of fifbes. OT. mosphere, (a phenomenon which I leave natural philosophers to admit or deny the possibility of,) could we suppose that in the moist warm atmosphere, so favourable for the production of animal life, that spawn could remain there for several days, or weeks, or months, without being brought into life; and if the fifh did come to life in the atmosphere, would they not be found on the tops of houses, in the streets, and wherever the rain fell, in their animal form? This is not alleged to have been observed in any instance but one, which happened at the Mount near Madras many years ago, when it was said to have rained actual live filhes. The very remarking this, like showers of blood in Europe, shows, that if ever such a phenomenon occurred, it was at least a great rarity; the other is represented as being not only common, but invariably the case.

To suppose they were raised by water spouts, or whirlwind3; would be absurd; because, from our data, the fifth are to be found for certain at all times, and in all situations, when the rainy season sets in. Water spouts and other similar phenomena seldom occur. The fifth too thus raised might be of many sorts, and different sizes; from the sea, a hundred times more likely than from the land.

Some gentlemen with whom I have conversed on the subject, willing to suppose the fact to be as above stated, have tried to account for the phenomenon in various ways. Some of them have supposed that there may possibly be some animal of the fifh kind endowed with the power of existing during a long period of dry weather in the earth; and that they

Sept. 19. on the generation of filbes. 94 buried themselves in that earth as the water gradually wasted away, where they remained concealed till the return of water brought them from their lurking places. It is well known, that, in Europe, eels have been known to exist a considerable time in stiff mud, where no water was to be perceived : and there is a sea fifh of the fhark tribe, often caught by the natives of the western isles of Scotland, there called blind bive, which has the power of existing for a long while without any water. It is a very common practice to carry these fifh home alive, and put them in a corner of the house where peat for fuel is kept, and in which place there is usually a large heap of loose dry peat earth, that has crumbled down in time, which they call peat drofs. Into this place they throw the fifh, which bury themselves in the drofs, and there continue alive till the family have occasion to use them as food, when they are gradually taken out as wanted, and drefsed for tablé. These fifh I myself actually saw alive in that situation in the house of John Campbell, esq; of Jura: I was told they would thus live for several months. Others have supposed that there may be some animal

others have supposed that there may be some animate of the fifh kind, capable of existing for a long period of suspended animation, in certain circumstances, similar to what we know does actually happen with the beaver, marmotte, and some other terrestrial animals in Europe. If so, these animals, they think, might remain torpid during the *dry* season in India, as our animals do during the *cold* season in Europe; and being endowed with a similar instinct, they might prepare for the change by burying them-

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Sept. 19. r gradualicealed till ir lurking , eels have ne in stiff ived: and ten caught and, there of existing is a very ome alive, re peat for usually a s crumbled Into this mselves in the family n they are d for tablé. that situaq; of Jura: al months. ome animal long period. stances, siappen with restrial anithey think, season in ason in Eaar instinct, ying them**3792.** on the generation of fiftes. **95** selves deep in the ground, in nests formed for the purpose. Snails we know have the singular power of continuing in life for many years. The animals though kept in a cabinet perfectly dry, and apparently dead during the whole time, yet recover life when placed in circumstances favourable for it.

These hypotheses are ingenious ; but how far either of them are just, remains to be proved; one great objection however occurs to both of them, viz. if these animals did actually bury themselves, and remain in the earth during the dry season, it must happen that they would often be found in that kind of torpid state in the earth. In no country of the world is the surface mould more apt to be examined than in India, where the businefs of digging tanks is so generally and universally practised, on a very large scale; and as these tanks will naturally be dug in the hollow places, where the fifh would most abound, it must happen that their nests would thus be frequently discovered during these operations, if such did really exist. But none of my informants had ever heard of any thing of this sort.

Another way in which we might suppose it pofsible that this phenomenon could be produced, is, that if fifh by any accident fhould once be brought into these poils, which we can conceive might happen in innumerable ways, and supposing the spawn of these animals, like the seeds of plants, or the eggs of insects, to remain without life until circumstances became favourable for their germinating, it might so happen that the spawn which was emitted immediately before the dry weather set in, being left deprived of the necefsary mois-

on the generation of fiftes. Sept. 19. 96 ture during the dry season, might retain its germinating quality, so as to become young fish on the first fall of the rain, as the silk worm's egg in the northern parts of Europe hatches immediately on being exposed to the heat of the summer's sun. In this case nothing would be wonderful but the sudden growth of the filh to a size fit to be eaten, in so fhort a time after the rainy weather sets in. But as we know that, even in Europe, the growth of a young salmon, at a certain period, is amazingly rapid when compared with most other animals, and as vegetation in India during the rainy season, far exceeds any thing we here experience, we can form an idea of animal growth being, in certain circumstances, proportionally rapid. According to this hypothesis there seems to be nothing contradictory to the usual course of nature at least, and nothing that could be deemed to approach towards the miraculous. On this supposition, however, one difficulty re-

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On this supposition, however, the must happen, quives to be removed. In this case it must happen, that when the pools of water are dried up, the fifth which had not been caught must be found left dead upon the surface of the ground. And, in some cases, unlefs the natives be peculiarly afsiduous in catching them, these must then be thus found in considerable quantities. My informants took no notice of this circumstance.

In fhort, we in Europe may form conjectures on this subject; but it is those who are in India only who can observe the facts. I fhall therefore deem it a particular favour if any gentleman in India, into whose hands this may fall, will have the goodnefs to

Sept. 19. its germion the first the noron being . In this he sudden in so fhort But as we of a young rapid when as vegetafar exceeds orm an idea umstances, is hypothetory to the othing that miraculous. ifficulty reust happen, up, the fifh ft dead upon ne cases, unin catching considerable otice of this

onjectures on in India only efore deem it n India, into e goodnefs to 1792. miscellaneous observations. 97 state the facts as distinctly as possible, and to explain the circumstances that may probably have given rise to the opinion, if it shall be found to be erroneous; or if it be true that fish be really caught in these circumstances, it will be accounted singularly obliging, if the kind, or kinds of fish, thus found, be enumerated, their size and natural history, as far as 1 is known, given; and, if possible, figures of these animals. It is highly probable that when all matters are fairly stated, much of what appears wonderful in this narrative will disappear.

MISCELLANEOUS OBSERVATIONS. Sir, To the Editor of the Bee.

In one of your late numbers we were favoured by your correspondent Albanicus with an elaborate pa-. negyric on professor Stuart's elements of the philosophy of the human mind. The panegyric however was not more elaborate than juit ; if Socrates was preferable to all bis predecefsors in science, chiefly becaufe he laboured to turn the attention of speculative men from obstruse inquiries, which few understand, and in which few were interested, to the businefs and manners of common life, much of the same merit bclongs to Mr Stuart. More than one of his cotemporaries perhaps may vie with him in profundity of: thought, in accuracy of discrimination, and in beauty of arrangement; but I know not that I have ever. read a metaphysical writer so generally intelligible, and so fraught with ingenious observations, equally instructive to the philosopher, the politician, the merchant, the mechanic, and even to the farmer. VOL. xi. N

93 miscellaneous chservations. Sept. 19. Among a number that might be selected, the following remarks on the ' effects produced on the memory by committing to writing an acquired knowledge,' appear to me to deserve the attention of every reader of your ufeful miscellany.

• The utility of writing, in enabling one generation to transmit its discoveries to another, and in thus giving rise to a gradual progrefs of the species, has been sufficiently illustrated by many others. Little attention however has been paid to another of its effects, which is no lefs important; I mean to the foundation which it lays for a perpetual progrefs in the intellectual powers of the individual.

' It is to experience, and to our own reflections, that we are indebted for the most valuable part of our knowledge; and hence it is, that although in youth the imagination may be more vigorous, and the genius more original than in advanced years, yet in the case of a man of observation and inquiry, the judgement may be expected, at least as long as his faculties remain in perfection, to become every day sounder and more enlightened. It is, however, only by the constant practice of writing, that the results of our experience, and the progress of our ideas, can be accurately recorded. If they are trusted merely to the memory, they will gradually vanish from it like a dream, or will come in time to be so blended with the suggestions of imagination, that we shall not be able to reason from them with any degree of confidence. What improvements in science might we not flatter ourselves with the hopes of accomplishing, had we only activity and industry to treasure up every plausible hint that occurs to us ! Hardly a day Sept. 19. , the followthe memory knowledge,' f every rea-

one genera-, and in thus species, has hers. Little her of its eft to the foungrefs in the

1 reflections, able part of although in igorous, and ed years, yet and inquiry, as long as his ne every day owever, only t the results ur ideas, can rusted merevanish from be so blended t we shall not egree of conce might we ccomplifning, treasure up Hardly a day 7792. miscellaneous observations. 99 países, when many such do not occur to ourselves, or are suggested by others; and detached and insulated, as they may appear at present, some of them may perhaps afterwards, at the distance of years, furnish the key-stone of an important system.'

To the truth and importance of these observations, the experience of every thinking person, in every station of life, will bear ample testimony; at least I must confess that many hints have occurred to me, which, by having neglected to commit them at the instant to writing, I have now irrecoverably lost, and which yet I would give a great deal to reca). The, professor, as was natural, instances particularly the improvements in *science* which might be expected from treasuring up every plausible hint which occurs, or is suggested to us; but I think it is obvious that equal improvements might be expected from the same practice in every useful art of life.

It is recorded of one of the most learned divines and eloquent preachers of the last century, that his method of composing his veckly discourses was, after every sermon, to revolve upon the ensuing subject; that being done, to pursue the course of study in which he was engaged, and to reserve the clofe of the week for the provision for next Saturday. By this practice not only a constant progrefs was made in science, but materials were unawares gained into the immediate future week. For he said, be the subjects treated of ever so distant, somewhat will infallibly fall in conducive to the present purpose.

Were the farmer, the mechanic, the tradesman, Ec. t. adopt a practice somewhat similar to this, it is not perhaps easy to be conceived how great im-

miscellaneous observations. 100 Sept. 19. provements might be made by each in his proper department. When a man is engaged, however eagerly, in a particular pursuit, ideas will sometimes dart into his mind, which though but slightly related to. the present subject, may be striking in themselves, and may lead to important discoveries. Of these no immediate use can be made, because a wise man will never interrupt a regular train of thought in order to trace detached ideas through all their posible consequences. They must therefore be thrown aside till a time of more leisure; and if they be not committed to a safer repository than the retentive memory, they are not likely to be found when they shall be next. wanted.

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Thus evident is the advantage which would result to every individual from the practice of committing such thoughts to writing; but instead of recommending the general use of common place books, which when properly kept are indeed valuable companions, I could with that THE BEE were occasionally employed for this purpose. The man of science, the farmer, the manufacturer, or the mechanic, who fhould send to your miscellany such plausible hints as at the time of their occurring to him he was not at leisure to pursuc, might afterwards, by means of your accurate indexes, find them as easily as if they had been reposited in his own manuscript. He would thus fully obey the professor's excellent directions for his own improvement, and would at the same time contribute to the improvements of others. By making his common place book public. he would render it more uscful even to himself, than it could be if exposed to no eye but his own. To you, Sir, I need not say how

Sept. 19. proper dever eageretimes dart related to hemselves, of these no e man will in order to ible conseaside till a committed mory, they ll be next.

ld result to itting such mmending hich when ons, I could ed for this the manud to your e time of re to purccurate inen reposithus fully r his own contribute g his commore useposeu to no t say how

1792. miscellaneous observations. Fort apt we all are to over-rate the importance of such hints as occur to ourselves, and in consequence to waste our time in barren pursuits. By adopting the method which I have ventured to recommend, this mischief would be in a great measure prevented, as the real value of our hints would be ascertained by judgeslefs partial than the fond discoverers. I am, &c.

E. O. I *.

ON BEES.

SIR, To the Editor of the Bee.

HAVING in a former letter endeavoured to exprefs my admiration of the good *taste*, *bardibood*, and *critical abilities* of your Old Correspondents, permit me now to say a few words to the Young Observer. He talks very plausibly, and, I doubt not, his observations are in general very juft. But I am of opinion he has not paid due attention to the bees (see vol. vi. page 253, &c.) I would like to know how he learned that the bees fall into a torpid state in winter. From what he says of the hedge hog, &c. it appears he allows animals in a torpid state take no food. Bats and swallows, when found in a torpid state, are mo-

• The Editor is much obliged to the ingenious author for the above hints, which perfectly coincide with his own ideas. Should he find that his correspondents take the hint, he will appropriate a part of the Bee to that purpose, under the title of the miscellaneous repetiory, and take care to specify the particulars in the index as distinctly as possible. Still farther to forward this object, fhould he find it meet with the approbation of the public, he will publish at the end of every three years, a connected index of the preceding eigheen volumes, to be distributed gradis to the purchasers of these volumes. 'This will tend to correct one of the greatest defects of a common place book, the difficulty of finding a particular article when it is wanted.

Sept. 19: on bres. 102 tionlefs and apparently without life. In a house in my neighbourhood, a bat, in its torpid state, in January fell down among fome clothes, and being taken up, and carefully laid up among some tow in a convenient place, it continued in its torpid state, and without food near three months, and revived some time in April, and was then set at liberty. But the bees, I apprehend, are never in a torpid state in this sense. 'They cannot bear the winter's cold without a cover, and therefore are crowded together in their hives, and have little room to dance and play; but they hum I suppose, except in the night when they are alleep, and feed in the winter upon the provision stored up by their industry in summer. A hive, it is supposed, cannot be kept safely through winter, that does not weigh upwards of thirty-two pounds, of which the hive (scape) weighs but six pounds; and besides consuming this provision, they must be fed in the spring if the severe weather continues long. It is a common saying, in Forfarshire, and perhaps in other places, that the bees sing on Christmas morning; this, however, is probably no more than they do every morning. On last Christmas morning I desired some to listen to the song of the bees; and though there was a severe storm, they told they heard them hum very distinctly. To answer the Young Observer's queries concerning bees, therefore, would, I think, be building on the baseless fabric of a vision*.

YACKSTROTTE.

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• I fhould suspect that the doubt will be, whether the opinion of "... Young Observer or Mr Yackstrotte, be the greatest vision. Many things that have been long generally admitted as facts, I know have been found to be false; --perhaps the sleep of the bees, during cold weather in wire

Sept. 19a a house in , in January ig taken up, a a conveni-, and withd some time But the bees, in this sense. out a cover, their hives, out they hum y are alleep, on stored up is supposed, that does not which the hive es consuming spring if the nmon'saying, aces, that the , however, is norning. On to listen to was a severe very distinctqueries con-, be building

CKSTROTTE.

the opinion of "." vision. Many things ow have been found old weather in win-

1792. reply to Misobrontes.

103

To the Editor of the Bee.

SIR,

In your Bee for 25th July last, I have read an answer to my elsays by Misobrontes. I do not intend to give him a reply at this time, which does not arise from any dread of your correspondent, any disrespect for your readers, or any want of personal gratitude to yourself, for your long and patient insertion of my trifles,-another reason is satisfactory. For sometime past I have been engaged in collecting, enlarging, and reprinting some of these letters, with many additions, and several other efsays which had never appeared before, and the whole will be advertised in a few days, in a large pamphlet, intituled, The political progress of Britain. Of this you shall have a copy, that if you judge any paisages worth an extract, they may at your conveniency be taken. For the literary property of the work is of no consequence to me, providing that I can difseminate my ideas, and convince my countrymen of the madnels and stupidity of the war system. In this performance your friend will see so many additional, and, as I believe, unanswerable arguments, as may perhaps stagger him.

I am sorry to see that Misobrontes has indvertently quoted two or three palsages as mine which are ter, may be one of these. But more accurate experiments than this adduced by our correspondent, will be required to overturn this general opinion. I will be glad to have this matter more fully elucidated by any of my readers who have had, or who may have, opportunities of making experiments on this interesting subject. Perhaps those in Rufais, and other northern continental countries, who find more profit in rearing bees than we do, will be able to ascertain this question in a more tailsfactory manner than can be done in Britain. From the manner in which Yackstrotte writes, it is very evident he is not deeply versant in the management of bees. Edit.

the fruits of his own inaccuracy. I employ this exprefsion because I am unwilling, and unauthorised to charge him with any settled intention to deceive.

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In my second letter, when speaking of James 7. I have faid, " had it been possible that the life of such " a prince, and the tranquillity of this country, could " have been prolonged to the present day, it is be-" yond the power of British vanity to conceive the " accumulated progress of British opulence." When this sentence is to be quoted by Misobrontes, he first mangles and interlines it, and then perverts it to a different meaning. I shall not take up your time by quoting him, as the paper is already in the hands of your readers.

Again, he charges me with saying that lord Chatham was "the worst minister that ever any nation "was cursed with." I never said or thought any such thing; to quote falsely is perhaps the worst infirmity that any author was ever cursed with. I said, and I adhere to my afsertion, that "with a more de-"structive minister, no nation was ever cursed;" that is to say, that no minister ever spent public money faster. But to call him the most prodigal of statesmen, or the worst of ministers, was a piece of folly reserved for Misobrontes.

Again, he accuses me with terming "Walpole the " best of ministers." He is himself the first person that ever said so.

Laurencekirk, Sept. 3. 1792.

TIMOTHY THUNDERPROOF *.

• The Editor will admit a reply from Misobrontes if he desires it, if fhort and written with moderation ; and here he hopes the altercation will end. Sept. 19. oy this exathorised to leceive. of James I. life of such ntry, could r, it is 'beonceive the e." When tes, he first rts it to a bur time by an hands of

t lord Chaany nation wought any e worst inth. I said, a more der cursed ;" public moprodigal of a piece of

Valpole the first person

PROOF *.

he desires it, if . the altercation POETRY.

THE KING'S BIRTH DAY AT AVON PRINTFIELD, 1792. For the Ber. Lixe ither bards right fain 1'd sing The great birth day o' Britain's king; But that it will me right sain ding T've cause to fear; For book-lear'd chaps wi high flown wing Singe't ilka year. When Music kend o' the affair, She grew as mad se a March hare; Quo' fit ye are haff daft an' main, Ye a nselefs coof; That subject's worn, just as thread bare 'S a body's loof. Gie o'rr your sang, continued fhe, An dinna ye affront me sae; Girg Burns, an twa three bardies mae, The therme wad hit; But you, ye hardly ken a B Bi a bull's fit! It to my heart gade wi' a dunt, To think the cutie had the atrunt; Says I, ye crabbit mislear'd runt; Ci fi draw breath, This day ye sail. Pregaus munt, As fhure as death. When that the cheard me crack'sae crouse, She grew ac caus as ony mouse; Syne louk'd see gleasant and as de douse,

When that me near ome crack sac crouse, She grew as cauma so ony mouse; Syne louk'd sac pleasant and sac douse, An' nac mair marl'd; That now I disma:care a louse For a' the warld, Come then, my wincome, dauit lamb t. An' l'as if you a suice Sare discourse.

Come then, my winsome, dautit lamb t. An' I'se gie you s gude Scots dam O' aquavize; just the sam I tak mysell; Whether it mend your milk or dam, Ye need na tell.

Sing on this morn, befure the sun To ayed the lift has yet begun, Wi hearts sae overjoy'd wi' fun, We canna s eep ; But up an' to the fields we run, But up an' to the fields we run,

By day light peep.

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106	poetry.	Sept. 19.
	Laog may we bruik sic happy hours, To stray 'mang brass, an' bogs; an' bow'rs, On king's birth day tu gather flow'ra To bulk our dwirs, Content an' this be stift our dow'rs, W' claise an' bannecks.	
ø	Here rowth o' flow'rs by nature grow; Naz art's requird to gar thern dow ; Ye gods! what blefing ye bestow On chankthin man ; O keep us fire the suid boo-kow, A lang's ye can.	
	Now glorious Samuel, Avon's brag, On sic accasions neves lag, By day break seat your painted flag, An' flag sauff baith; I wat it is nae tatterd rag, But good hale claith.	
	O Avon field ! thrise happy place' This day there's name of Atlant's race Within these wears a duwie face, For a'' are happy ! God grant it lang may be your case. . Ay hale an 'cracky.	
	At height 0' day the blood-red winey in cristal glafses sparklin' flint; Upon my word it's really fine; Ooly to see't; But by my sauf-it's nine times nine Better to prie't.	
	Syne first of a 'we toast the king," The niest in order is the quear, The primze o' Wales the heir i ween O' Britain's crown, The royal family bedeen, Thir healths gas room	
	An' patriotic chiels beside, That lo'e auld Britain's yird and tide, Our breast fill'd fuu o' loyal pride, Their featy fraws, Tiil hill an' dale at distance wide, Dis out 'burgas.	

Riog wi' huraas. Cin our gude king was hete himsell, To see our chops an' hear our helly An' how ilk: tongue as snack an' snell, Loudo tours his fames; T'll wad a plack, here he wad dwell, An' ca't his hame.

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Sept. 19.	.1792.	poetry.	167	
		Yeu Lunin town an' Embrugh baith, Aft bloodie scenes o' dirt an' death, On days like thit, had in your wrath, An' social be; At Ay.n feint a ane wad fkaith A very flee.		
		To beet the joys o' this day's sport, Our masters, Lord reward them for't! Gie us a fuuth o' the best sort O' barley broe, That make the time seem wond'rous thort An' cheary too.		
		As soon's we get our mid-day meal, O' bread an' butter, milk or kail, Then fhapks that ken na how to fail, On king's birth day, Upon a floor weel laid wi' dail, Haid reels away.		
		Keen Frazer rubs his fiddle strings, His elback flees as it had wings 3 Rae at the bafs wi' vigour clings, An' weel he playea While voices at the punch bowl sings King Georgo's praise;		
		The damaels clean, an' trìg, an' fàir, Frifk thro' the reels wi' rual àir, Nae wanton look, nor bosom bare. To temp the younkers. Hers flefh and blude may safely stare, As if at Blunker's *.		
1	مر	Then young, an' auld, an' middle age, Par frae their cares quite thrang eng uge, Whilst haimlefs mitch an' pleasure enge. How great the blifs! Hech! life wad be a funny stage Were't ay like this.		
up. ∿		Sic pleasures maun through time gie wiy, Naue need expeck they'll last for ay; The Lafs that opes the yetts o' day, Wi' faithfu' heart, Keeks in wi' halesome amiling ray, An' bidg us part.		
4) 191		Frae her sweet face nas mair we Grave, But just as dance that dings the lave, Bab-at-the-bouster, then we have, Withouten full, Where a' partakes, built gay and grave, An' syoc we skail.		
· 1		• An ugly old fellow of the place.		

108	poetry.	Sept: 19.
	Now Musie ye hae done fu' weet;	
	Some ither time us twa may speel	
	Up to Parnafaus wi' z wheel,	
	An' view its tap ;	
	But first and foremost or we speel,	
	We'll tak a nap.	
	I. K. PRINTER AVON FI	ELD.
	A FRAGMENT.	Annual Statements
	For the Bee.	
	KEEN blaws the wind o'er Donocht head,	
	The anaw drives selly through the dale,	
	The gaberlungie trills my aneck,	
	And thiv'ring tells his waetu' tale.	
	II.	
	Cauld is the night; -O let me in ! And diana let your minstrel fa ;	
	And dinna let my winding facet	
	Be naething but a wreath o' snaw.	
	pe maching but a wreath o the	
	Fut ninety winters has I seen.	
	And pip'd whate goroochs " whitring flews.	
	And mony a dance ye've danc'd I ween,	
	To lilts which frae my drone I blew.	
	5V.	
	My Eppy wak'd, and scon the cried,	
	Get up gudeman and let him in ;	
	For werl ye ken che winter n'ght	
	Was fourt when he began his din.	
	T. T. Handler O men it's start.	
	My Eppy's voice, O wow it's sweet,	
	E'en though the bars and scaulds a wee-	
	But whan it's tun'd to sorrow's tale, O but it's doubly sweet to me!	
	O but it i doubly iweet to inc.	
	Come in auld carle, I'll stir my fire,	
	I'll mak it bleeze a bo ny flame;	
	Y ur blude is thin, ye've tint the g .te,	
	Ye fhou'd nae stray sae far frae hame.	
	¥11.	
	Nae hame have I, the minstrel said,	
	Sad party a rife o'erturn'd my ha',	
	And weeping at the eve of life,	
	I wander through a wreathe o' enaw.	
	Cetera desunt.	
	goregeks. An explanation of this word will be wery of	bliging.
- 0.	Bortitan, With carponing of the second	
	100	
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\$792.	anecdotes of Artedi.	139'
W1.	NOTES OF ARTEDI, THE FAMOUS SWEDISH TH SOME ACCOUNT OF A NEW EDITION OF 1 WALBAUM.	
terest a nar These works volum with t one m the pu life of John	public are indebted to Linnæus for the f ing memoirs of his friend and fellow disc ne well known to the lovers of nature extracts are made from a Latin edition is, just publifhed by Dr Walbaum of Lubi- nes quarto, with plates. These anecdotes that warmth which was natural to Linnæ ore to the numerous list of examples that billc, of the hard fate that too often mark f philosophers. Artedi was born in the year 1705, in the rmania in Sweden. He inherited from	iple Artedi, aral history. a of Artedi's eck, in three a are written us, and adds at are before as the private province of
arden excell came Linna mysel excell I waa great negled	t paffion for all branches of natural hist ed particularly in what respects fifthes.— to study at the university of Upsal. "In eus," I came from Lund to Upsal. I with f to medicine. I inquired who, at tha ed most for his knowledge; every one na impatient to see him. I found him p distrefs for the lofs of his father, with h etcd. He resembled the portrait of Ray,	tory, but he In 1724, he 1728," says ed to devote t university, med Artedi. bale, and in is thin hair , the natura-
tion to ted w at the me wi	His judgement was ripe, his thought anners simple, his virtues antique. The arned upon stones, plants, animals; I with his observations, equally ingenious and very first, he was not afraid to communi- th the utmost franknefs. I desired his for- mine. From that moment we formed	e conversa- wae enchan- id new; for cate them to riendship, he

anecdoies of Artedi. Sept. 19:-Q11 which we cult wated with the greatest ardour for seven months at Upsu. I was his best friend, and I never had any who was more dear to mc. How sweet was that istimacy : With what pleasure did we see it increase from day to day ! The difference, even of our characters, was useful to us. His mind was more severe, more attentive; he observed more slowly, and with greater care A noble emulation animated us. As I despaired of ever becoming as well instructed in chemistry as him, I abandoned it; he also ceased to study betany with the same ardour, to which I had devoted myself in a particular manner. We continued thus to study different branches of science; and when one of us excelled the other, he acknowledged him for his master. We disputed the palm in ichthyology; but soon I was forced to yield, and I abandoned that part of natural history to him, as well as the amphybia. I succeeded better than him in the knowledge of hirds and insects, and he no longer tried. to excel in these branches. We marched tog ther as equals in lithology, and the history of quadrupeds. When one of us made an observation, he communicated it to the other ; scarce a day passed in which one did not learn from the other some new and interesting particular. Thus e-mulation excited our industry, and mutual afsistance. aided our efforts.' In spite of the distance of our lodgings, we saw each other every day. At last I set out for Lapland,-he went to London. He bequeathed to me his manuscripts and his books.

"In 1735 I went to Leyden. I knew not what was become of Artedi. I thought he had been in London. I found him there. I recounted my adventures; he communicated his to me: He was not rich, and therefore was unable to be at the expense of taking his degrees in medicine. I recommended him to Sebs, who engaged him to pub-

Sept. 19: ur for seven I never had cet was that e it increase ar characters, , more attengreater care aired of ever as him, I any with the f in a partiudy different excelled the We disputed ed to yield, y to him, as than him in longer tried. tog ther as peds. When nicated it to did not learn g particular. tual afsistance our lodgings, out for Lapme his manu-

not what was a London. L he communiare was unable in medicinehim to pub1792. anecdotes of Artedi. (IT Fith his work on fiftes. Artedi went to join him at Amsterdam.

"Scarcely had I finished my fundamental botanka. I communicated it to him; he let me see his philosophic ichthyologica. He proposed to finish as quickly as polsible the work of Seba; and to put the last hand to it. He showed me all his manuscripts which I had not seen: I was prefied in point of time, and began to be impatient at being detained so fong. Alas! if I had known this was the last time I should see him, how flicked I have prolonged it !

"Some days after, as he returned to sup with Seba, the inight being dark, he fell into the canal. Nobody serceived it, and he perified. Thus died, by water, this great ichthyologist, who had ever delighted in that element.

"I learned his fate-I flew-I saw his melancholy remains. I fhed tears : at last I resolved to preserve his glory, and to fulfil my engagements. I procured his papers with a good deal of difficulty from his host, who wanted to sell them by auction. Mr Cliffort bought them, and gave them to me. In spice of business, with which I was then overwhelmed, I stole from it the time that was required for revising the works of my unfortunate friend. Who could better edit his works than him who was full of his stile, of his ideas, of his method and manner? I passed six months in Holland to complete this edition ; hippy, if I have been able properly to fulfil this last duty to my friend, and to secure an eternal fame for him, who was carried off by such a premature fate. I shall rejoice in having snatched from oblivion, the greatest work of that kind which exists. Artedi has rendered that science the most easy of all, which before his time was the most difficult."

Sept. 19.

Thus, does the republic of letters owe to Linnæus this elementary treatise on fifnes. But as the edition of Linnæus was not now to be had, having been published in the year 1738, Mr Walbaum has now presented new edition of the whole of Artedi's works, with a supplement containing the discoveries that have been made in that branch of natural history since his time.

anesdotes of Artedi.

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The first volume of this new edition, which was printed in the year 1788, contains the bibliotees ichthyologica of Artedi, which contains the literary history of that science, commencing several years before the Christian æra, and cones down to our own time.

The second, which was published in the year 1789, presents the philosophia ichthyelogica of Artedi, improved by Wilhaum, who was benefitted by the writings of Monro, Camper, Kaiseuter and others. Here also are added, tables containing the system of fishes by Ray, Dale, Schaeffir, Limacus, Gowan, Scopola, Klein, and Gronovius.

The third volume, published 1792, completes the collection of Artedi's works. It contains technical definitions. After the generic and individual characters, come the names and Latin phrases of Artedi,—the synonymes of the best naturalists,—the vulgar names in English, German, Swedish, Russian, Danish, Norwegian, Dutch, and Samoyed—the season and the countries where every kind is found, their varieties, their description, and observations. The modern discoveries, even to our own times, are added, so that in this part is collected, the observations of Gronovius, Brunich, Pennant, Forster, Klein, Bloch, Gmelin, Hafslequist, Broufsonet, Leske, Bui/h, Linneeus, and other great examiners of natures.

This work concludes with the new genera, created since the death of Artedi; yet those of Klein, Linnaus, Granovius, Block, Forster, Gowan, Forskall, Brunnich, Seopole, Hermann, and Houtuyn.

JOURNAL ENCYCLOPEDIQUE.

Sept. 19, Linnæus this lition of Linpublished in inted new a supplement nade in that

h was printed *byologica* of that science, an æra, and

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LOPEDIQUE.

94.

THE BEE,

LITERARY WEEKLY INTELLIGENCER,

FOR WEDNESDAY, SEPTEMBER 16 1793.

Essay on the influence of taste on domestic and social life, by the author of the essay on taste in architecture.

Sir, To the Editor of the Bee.

I HAVE endeavoured to fhow that tafte is an artificial organ of perception, created in a healthy, temperate, uncorrupted individual, by the contemplation of nature. This discriminating power has received the name of that common sense which relifhes and distinguifhes, by the mouth and palate, the flavour of our nourifhment, or of noxious food; because it may be considered as a spiritual palate, which apprehends and relifhes the efsential qualities of nature or art. separate from their großer substance, leading us thereby to the preference of those things that are most conducive to the nourifhment and growth of our immortal spirits. I have considered how this taste is conducive to the fitnefs, excellence, and beauty of our domestic dwellings, and of our public edifices, and am desirous to apply the same principles of argu-VOL. xi.

114 on the influence of taste. Sept. 26. ment, to the good government, and enjoyment of domestic and social life.

I fhall consider this subject, first, as taste is productive of our own immediate tranquillity and happinefs: secondly, as tending to the tranquillity and happinefs of our families: and lastly, as promoting the tranquillity and happinefs of the community with which we are connected, and ultimately that of the public at large.

First, As to our own immediate tranquillity and happinefs. Who is there that does not sometimes feel that there is a void, a chasm, a somewhat in the mind, that feels confused, disordered, and ruinous, yet seems as if it might be repaired?

The disturbance and languor that is occasioned by this frame of mind, is removed by active businefs; some engaging pursuit that causes not remorse; by innocent amusements of all kinds, in succefsion; and by bodily exercises in the field. When we are in health, we see clearly about us in a moral sense, are satisfied with ourselves, and pleased with our companions. When pursuing our present objects of desire with alacrity, we, at the same time, look back with self gratulation on the past, and look forward to the continuance of an agreeable and creditable employment, we are in that complex, but well arranged state of body and mind, which approaches moft nearly to perfect happinefs.

Now that this state cannot be approached, without the intervention of taste, will, I hope, sufficiently appear from the following considerations.

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Sept. 26. nent of do-

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1792. on the influence of taste.

115 It, It seems evident that the everlasting author of nature has so formed this world, that man alone is capable-of contemplating its beauty, its adaptation to the relative designs of infinite wisdom and goodnefs, and to the happiness of the creature, as well as to the glory of the Creator ; and since the stoutest infidel must acknowledge, that, so far as we can discover, nothing has been constituted without a purpose, or in vain, so it appears that man has been endowed with a rational soul, and with taste and discernment ; that having been invited by the maker and governor of the universe to visit this planet, he might be able to admire it, to discover its innumerable beauties, and feebly, yet discriminately, to adore the wisdom and goodnefs of the Creator.

2dly, It is no lefs evident, that in proportion to the exercise of man's intellectual and contemplative powers, and his abstinence from grofs and sensual excesees, he becomes more useful, perfect, and happy; because he thus exercises himself according to his own peculiar constitution of nature, and does not degrade himself, by falling into the inferior nature of other animals, which being regulated by a mechanical and unchangeable instinct, do not commit such excesses, nor are disturbed in their functions. by the same energies of fancy and imagination which cause the disorders of human life.

And, lastly, It being certain, that all permanent tranquillity and satisfaction in animated bodies, arise from their being in a state that is according to nature ; man's nature being indisputably contemplative,

116 on the influence of taste. Sept. 26. he cannot attain or preserve inward tranquillity, without using continually this faculty by which he is characterised, and distinguished.

But the moment man begins to contemplate, he becomes a man of taste, and the more he indulges rational curiosity and contemplates, in whatever situation he is placed, the more perfect he becomes in all his functions *.

In the lower classes of society I acknowledge that men, and still more women, are prevented from applying this contemplative power extensively; but it will neverthelefs render them happier and more useful in the circle in which they move, and it will tend to produce improvements in their businefs, and economy.

The journeyman gardener, carpenter, or weaver, for example, who indulges this natural propensity, will avoid much of the grofs and pernicious intemperance of the vulgar, by turning their powers to some useful improvement in their respective employments, or to healthful, ingenious, and innocent amusements. But I am more immediately engaged in this efsay to fhow that taste is conducive to the

• The ingenious author here gives a more extended meaning to the word *taste* than it usually bears. The profound mathematician reflects and discriminates with great accuracy, yet the proportion of lines and humbers are not usually accounted among the objects of tasts. We ought therefore to consider the author as here meaning only to say that mental dierimination constitutes the bas's of good taste; though that discrimination may also be excised on objects that are not, in the common acceptation of the word, accounted objects of taste. Im an effay of this nature it would embarrafs the reader too much to call off his attention at every step to nice metaphysical distinctions; yet, to prevent evils, it is necefarry 'to take some notice of them. Edir. Sept. 26. anquillity, which he is

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or weaver, propensity, ous intempowers to pective emind innocent ely engaged cive to the

meaning to the ician reflects and ines and humbers We ought therethat mental dinat discrimination nenon acceptation of this nature it ationat every step ls, it is necefaary Edit. 1792. on the influence of taste. 1177 tranquillity and happinefs of the mind, independent of external, moral, or political causes, and fhall have occasion hereafter to fhow how it co-operates in domestic and social intercourse.

It is impossible that the mind fhould enjoy repose and inward satisfaction when it is perplexed and distracted by confused or distorted notions concerning the appearances of nature, or the moral government of the world by its divine governor, or of the civil government upon which we are to depend for security and comfort.

Curiosity, lefs or more in every situation, excites the exploration of these riddles; and taste, if this curiosity is indulged, succeeds to discriminate, with various degrees of accuracy, a satisfactory result, which produces a pleasant flow of thought and reflection, that calls for gratification of a similar nature, in a more extensive range of experience.

Curiosity meets here with the love of variety, and whets the appetite for knowledge.

Mr Paley, archdeacon of Carlifle, in his little essay on human happinefs, has placed it, 1st, in the exercise of the social affections: 2dly, in the exercise of the faculties either of body or mind, in the pursuit of some engaging end: 3dly, upon the proper constitution of our habits : and, lastly, upon the enjoyment of health. On all these heads he has treated the subject very pertinently, but has been forced to diffuse his argument, chiefly upon the proper constitution of the habits, which can be done no otherwise than by that power of discrimination, which produces the permanent quality to which we

Sept. 16. on the influence of taste. 118 affix the denomination of taste. Now though it muft be confelsed, that a great proportion of mankind are excluded by their daily and hourly toils, from launching out into extraneous employment, yet as every one has some leisure allotted, or permitted to them, and at least one complete day in the week, of relaxation from labour or businefs, it seems to be of unspeakable importance that this precious leisure fhould be employed in a way conducive, not only to the advancement of personal happiness, but to the progrefsive improvement in the individual, and of the general good of society, to which nothing can so much contribute as that quality which I have endeavoured to describe, and which in its due modifications, is nowise inconsistent with the humblest situations.4

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In the morning of life, when every thing is frefb, and new, and gay, it is easy to preserve the tenor of our minds, by the variety of agreeable and engaging pursuits which present themselves continually, and without trouble or research. But as life advances, the charm difsolves, the prospect of future happinefs diminifhes, the horizon fluts in, and closes all around us, the clouds sit deep with foreboding darknefs. Then the inborn and inexpugnable desire of pleasure impels us to seek for that sweet variety and gentle agitation. in artificial pleasures and amusements, which we cannot find in the hackneyed routine of our ordinary occupation.

The man who has not taste, becomes in this sad dilemma, either a cynic, or a sensualist, a husybody, a hot partizan, or an enthusiast in religion.

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ng is frefb, he tenor of d engaging nnally, and e advances, e happinefs all around g darknefs. of pleasure and gentle nusements, routine of

in this sad st, a busyn religion.

on the influence of taste. 3792. 119 The woman a gad-about, a card player, or a devotec. This is the moment that the insidious prieft, the distorter of the wise and benevolent, the social and humane doctrines of Christianity, takes to instil the subtile poison of enthusiasm into his deluded votaries, and to teach them to look for happinefs in the clouds, in opposition to the luminous and sublime, as well as rational doctrine of the founder, that the kingdom of heaven and happiness is within us. The fortunate votary of taste, seeks for rational pleasure in the devout contemplation of the works of nature, and the useful examination of the works of art, and the improving observation of the infinite variety of moral character, in history, biography, or in common life. He desires not to overleap the boundaries of our limited nature, the flamantia mania mundi, to plunge into the regions of fanatic enthusiasm, or the iron handed bigotry and intolerance, where the object is hid in the clouds, or evaporates in dreams; but with a reasonable dependance on superintending providence, exercising all his rational powers, he investigates the noble and varied spectacle of natural beauty, which is presented to him as it were on a theatre, by its bountiful author, he enjoys the play, nor cares if he thall leave it before the beginning of the farce !

" Then hother bring the fair ingenuous mind,

By her auspicious aid refin'd,
Lot not a hedgetow hawthorn blows,
Or humble hare bell paints the plain;
Or valley winds, or fountain flows,

" Or purple heath is ting'd in vain. " For such the rivers dath their foamy tides,

44 The mouncain swells, the dale subsides ; .

120 grammatical disquisitions. Sept. 26. "Even rhrifile's furze his wandering steps detain, "And the rough barren rock grows pregnant with delight. SHENSTONE. I am, Sir, your humble servant, B. A.

GRAMMATICAL DISQUISITIONS.

Continued from vol. x. p. 318. Observations on personal pronouns.

The following elsay is intended to give a general view of the elsential properties and polsible variations of the personal pronouns, upon principles that are not derived from the practice of any particular language, with a few remarks on some words in the English language, that have been usually ranked as pronouns.

A PRONOUN is a word that may be occasionally substituted in the place of a noun, and performs in language the same functions with the noun itself.

When the subject is examined, we are easily led to perceive that all nouns which can admit of a substitute for them, must be in one or other of the threefollowing states, viz.

1st, The pronoun may be employed as a substitute for the party who speaks, or the party who addrefses a discourse to another. The pronouns which: perform this office have been, in general; denominated pronouns of the *first* person; or,

2d, It may represent the party addrefsed; and in this predicament it assumes the name of the pronoun of the second person; or,

3d, It may represent objects at a distance, or not present, to which the discourse refers; and, in this Sept. 26. th delight. NSTONE. B. A.

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ince, or not and, in this 1792. on the personal pronouns. 121 case, it has been called the pronoun of the third person.

As these circumstances must occur in all languages, so we find these different classes of pronouns in every language; and it is these classes of words which have been denominated, in general, *personal* pronouns.

But though all languages agree in having these three classes of pronouns, they differ infinitely as to the variations they admit of, and other circumstances affecting them.

The pronouns of the *first* and *second* persons are affected by circumstances so much in the same way, that we fhall find it convenient to consider them together, and the pronouns of the *third* person, which differ from them in several respects, by itself.

As nouns, in most of the languages we have been accustomed to study grammatically, admit of a threefold variation, in respect to GENDER, NUMBER, and CASE*, we have naturally been disposed to consider the pronouns which become their substitutes, as being capable of the same variations. But here the general analogy fails us. In the languages usually taught grammatically, we find no variation in the pronouns of the *first* or second person respecting gender; and, therefore, it has been concluded, generally, that these two classes of pronouns cannot with propriety admit of any variation in respect to gender. Our grammarians have even gone so far as to invent a reason why this rule fhould not be transgrefsed. Without being influenced by these reasons, which I

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• See Bee, vol. x. p. 241. et 109.

122 on the personal pronouns. Sept. 26. view as an attempt to flut the door against investigation, I fhall here only briefly remark, that we can easily perceive that a variation in this respect is not contrary to nature; but we can even conceive that such a variation might, if it had been practised, be the source of much elegance and refinement in language; and, therefore, we may conclude, that it is not at all impossible, but some languages may be met with which admit of this particular variation.

As I find, however, that in the course of this investigation I shall frequently have occasion to point out deficiencies, and inelegancies, which are not in general adverted to, I shall beg leave to take notice here, once for all, of the great facility with whichwe accustom ourselves to make use of the same word in two or more distinct senses, where we experience a deficiency of terms, without being sensible of the smallest imperfection in that respect. For example, when : I say, "it pained her to be compelled to sell her house,". we are not sensible of the smallest impropriety or inelegance of language: though, had we occasion to employ the masculine instead of the feminine gender of the same pronoun, we could not say, " it pained bim to be compelled to seil bim house ;" but we would find it necessary to say, "it pained bim to be compelled to sell bis house." This example brings us at once to perceive, what we did not before suspect, that the single word ber is forced to perform, alike, the office of the two words bim, and bis, with neither of which we think we could possibly dispense. Were we to proceed by the same mode of analysis, we fhould be able to point out a variety of great

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of this inon to point not in getake notice with which same word xperience a of the smalmple, when : ber house," mpropriety d we occahe feminine ot say, " it ouse ;" but ained him to mple brings . : before susto perform, nd bis, with oly dispense. of analysis, ety of great

1792. on the personal pronouns. 123 deficiencies which are never perceived in practice, though they would be immediately recognised had we been in the practice of a more perfect use of language. Where I take notice of possible variations that may take place in other languages, that do not take place among those we know, let me, therefore, not be accused of fanciful refinement, on the ground that we do not perceive the want of them. It would astonish any person who were to eensider how many of the most efsential parts of language might, by this mode of arguing,-be annihilated.

Gender ...

THOUGH NO European language therefore admits of more than three GENDERS, for their pronouns of the first and second persons, and few of them even of more than one; yet there is no impossibility but other languages may exist which admit of some, or all of the variations that follow *.

1st, For the massuline gender, where the sex of the animal is known to be male.

. 2d, For the *feminine*, where it is known to be female.

3d, For the *indefinite*, where the sex of the parties is either not known, or immaterial, and therefore not necessary to be known, or where it is wished to be concealed.

4tb, In countries where eunuchism prevails, and where of course this gender of animals must frequently occur, a variation might also be admitted for

• The reader will observe that I take no notice of those accidental distinctions of genders, which have been produced by the particular termination of words, Oc.; but refer only to the natural distinction of sex, Oc.

124 on the personal pronouns. Sept. 26. them, which might be called the imperfect. We can easily conceive that prodigious force might occasionally be given to the language of contempt by the use of this pronoun.

sth, For the neuter gender, where inanimate objects are concerned. Some may, perhaps, think it would be a very unnecefsary, and even an absurd refinement, to have a variation of these personal pronouns for the neuter gender ; because inanimate objects neither can speak themselves, nor be spoken to. Yet it is very possible to form an idea of the utility of such a clafs of words, had they been in use in language. Even at present, when it is meant to denote a high degree of contempt for any person, the neuter Englifh pronoun, of the third person, is often substituted . for either of the other two genders in use in our language : thus, " it, meaning be or fbe, is a despicable . creature," " it, meaning as before, is a pitiful thing," i. e. person; and it is surely as necessary to give nerve to the language of contempt, when the object is present, as when absent: and, as the speaker may sometimes with to express a particular sense of humilia-" tion or debasement of mind, denoting contrition, it is easy to conceive occasions when this gender might " be adopted with great force and propriety, in the pronouns of the first and second, as well as of the third person.

Even in another way might this gender become necefsary. Addrefses to inanimate objects are common, even without any attempt at personification; as in the song, "Cogie gin ye were ay fu'*," &c. in which cases the neuter proncun might be employed

• A humourous Scots ballad in which a person is representer, as addref-

Sept. 26. We can coccasionby the use

ate objects' k it would efinement, nouns for cts neither Yet it is' r of such a language. ote a high euter Engubstituted . n our landespicable ful thing," give nerve ect is premay somef humiliastrition, it der might in the prof the third

ler become s are comication.; as *," &c. in e employed net as addref1792. on the personal pronound. 125 with singular propriety. In fhort, there seems to be no doubt that the neuter gender might be admitted with regard to the pronouns of the first and second persons. Hence we may conclude that, instead of THREE, there might be at least FIVE genders of this clafs of pronouns.

Of number. .

In all languages each of the personal pronouns admits of a change respecting NUMBER, which must be at least two-fold, viz. singular and plural. Most languages have no other distinction in this respect ; but some divide the plural into definite and indefinite. The Greeks, we have already said, admitted a definite plural for the number two, which has been called the dual number; the same distinction I am told also takes place in the Gælic, Calic, or Celtic language. But I have not heard that the definite plural has ever been extended farther than two in any language. It is plain, however, it might be with equal propriety extended to the number three, or other higher numbers ; and it is by no means impossible but some languages may have extended tills definite plural to other higher numbers, especially with respect to the pronouns. Should this be the case, and were a writer at all times permitted either to employ the definite, or the indefinite plural, as best suited his purpose, it might doubtlefs be a new source of elegance and perspicuity. sing himself to his cogie, that is, a difh that contains his victuals, in a very pleasing manner. The burden of the song is :

"Cogie gin [if] ye were ay [always] fu' [full,] Cogie gin ye were ay fu', I would sit and sing to you, I would at and sing to you, Until that I was weary."

126 on the personal pronouns. Sept. 26: Of cases.

In some languages certain relations that subsist between nouns or pronouns and other words, are denoted by a variation in the form of the noun or pronoun, to which clafs of variations has been appropriated the name of cases. In many languages no such variation subsists with regard to nouns, as particucularly the English; and in all the languages where CASES have been adopted, the number of cases is so. few as to perform very imperfectly the uses for which they seem to have been adopted; the highest. number of cases in any European language being six *, whereas the relations that for want of these. come to be denoted by prepositions, amount to six times that number at least. This variation, therefore, seems to be, for the most part, a very unefsen-tial peculiarity of certain languages.

There seems, however, to exist in nature an efsential reason for one variation, at least, in regard tocase; and in respect to this particular circumstance all languages, that I know, admit a variation in their pronouns, even where the nouns do not: The object denoted by the noun or panoun, when considered asconnected with an active verb, may be viewed either as active or as pafsive; as the object from which the energy proceeds, or as that on which it acts. This distinction is real, and must subsist in all languages; though, from some unaccountable oversight, most languages admit of no distinction for the noun when placed in, these different circumstances, though in

• And even these are so imperfectly discriminated, that the distinction is in many nouns more nominal than teal.

Sept: 26:

that subsist ords, are denoun or proen appropriages no such a, as particuguages where of *cases* is so the uses for the highestignage being vant of thesenount to six ation, thereery unefsen--

ure an efsenin regard to circumstance ation in their The object considered asviewed either in which the casts. This il languages; rsight, most e noun when though in nat the distinction

on the personal pronouns. 127 1792. others it has been adopted; and the words then have obtained the name of the nominative and accusative CASES. Though per'saps it would be better to call them the active and the passive state. Our English prenouns admit of this distinction, though our rouns do not. The same may be said of many other languages, ancient as well as modern, even where grammarians do usually arrange the whole into cases; or in the Latin, for example, where more cases are adopted than in any other language, the nominative and . accusative are the same in perhaps half the nouns of that language. This defect is the more to be regretted, in that no word has ever been adopted, which, when joined to the noun, denoted this relation, as in other cases. 11

Another unobserved possible variation of the pronoun.

THESE are all the variations that grammarians have admitted to be possible respecting the pronouns; because these are all the variations that have been carried into practice in the languages we have been taught grammatically. But there are several other relations that may subsist between the parties, for which pronouns become the substitutes, which it would be of great A importance to be able to represent without circumlocution, with clearnefs and perspicuity, by means of a particular variation of the pronoun for that purpose. For example, the speaker may be supposed to addrefs a discourse to the party present, or to speak of those who are absent, or to represent himself, under one or other of the following points of view, at least.

128 on the personal pronouns. Sept. 26. I. They may be considered as inferiors.

m. As equals.

7 III. As superiors indefinite.

v. As superiors definite.

The number of variations, definite, would vary greatly according to the degrees of rank established in the country where the language was spoken; but they could in no case, perhaps, be lefs than two, viz. 1st, As respecting the king or first magistrate.

2d, As respecting the supreme Being.

In all these respects, at least, we can easily conceive that a variation of the promound of only pofsible, but in some measure absoluted in the sensations by which his mind is on innumerable occasions influenced. So necefsary indeed is this variation of the pronoun, that although it has been hitherto, in as far as I know, entirely overlooked by grammarians, yet in actual practice, men, feeling the want, have, in most languages, adopted certain contrivances for removing the defect, which have been in some languages, more happily effected than in others.

In the English language we have no other proncum of the first and second persons, but the words I and thow. Practice has enabled us however to vary these words from the original meaning; and on so casions to substitute others in their stead thu, we sufficiently absurd; or periphrastic phrases are made use of to supply the place of a simple pronoun. Thus the proper pronoun thou, is, by general practice, now in a great measure appropriated to solemn Sept. 26.

would vary cestablifhed poken; but in two, viz. agistrate.

easily contot only poftefsary, beof precision, nnumerable l is this vaas been hierlooked by feeling the certain conhave been ted than in

words I and words I and o var these on so ctad thu, are as are made the pronoun. meral pracd to solemn 1.792. on the personal pronouns. 129 addrefses to the deity, or as announcing commands; and in common conversation between man and man, the plural you is made to stand in place of a singular.

On the other hand, with a view to give a certain elevation of tone to majesty, in many languages the king, in the singular number, makes use of the plural pronouns, and says, in English, we, instead of simple *I*. On some occasions, rejecting the plural, the kinguses the simple pronoun singular, with the addition of his distinctive epithet, as in Spain, yo il re, *I* the *king*.

Formerly we had in English an indefinite pronoun, expressive of general respect from an inferior to a superior, which has now fallen into disuse. The phrase was, your bonour. But though this indefinite respectful pronoun be now obsolete, we still retain many other pronouns, definite, of the same class, as your lord/bip, your grace, your excellency, your royal bigbness, your boliness, your serene kigbness, your majesty, &c. And the word friend, as denoting kindness from a superior to an inferior, is still in use, though we have no pronoun that can become its substitute expressive of the same idea.

In the Spanish language they have proceeded a step farther than we have done in this respect. It is only in speaking to inferiors they make use of the plain pronoun vos or os. In addressing equals whom they wish to treat with respect, they make use of the word usted; and the periphrastic phrase vuestra vol. xi. R †

"130 on the personal pronouns. Sept. 26. merced*. The general use of these phrases, gives to that language a dignity and politenefs in colloquy, that scarce ad nits of being rendered into English with propriety.

The Germans also make use of the simple pronoun euer, der eure, or der eurige, to inferiors only. But superiors they addrefs in the more respectful terms ibr, dero, ibro aud ibrige.

In Swedifh also they only make use of the word *ee*, when speaking to inferiors, *ban*, when addrefsing equals, and *ber*, adding the name of the person, which is equivalent to Mr, with the proper name in Englich, when they addrefs superiors.

It thus appears that this distinction of the personal pronouns, though it has been overlooked by grammarians, is natural and proper. I therefore conclude, that the personal pronouns, besides those variations already specified, of gender, number, and case, admit of another variation, denoting personal relation also. I do not find a name for this division at present sufficiently exprefsive.

All the variations above described, apply to the pronoun of the *third* person, in the same manner as to those of the *first* and *second* persons. But there are other peculiarities respecting the pronoun of the *third* person, that do not apply to the others, which require now to be noticed.

To be continued.

• I think I can perceive a peculiar delicacy in the derivation of this y hrase. Merced, by itself, is a favour or agift. The oblique reference to favours conferred, when speaking to those who, from superiority of rank, have the power of conferring these, stems to be particularly delicate. Per-Eups this is only a reflexment. Sept. 26. rases, gives n colloquy, nto Englifh

ple pronoun only. But ectful terms

the word ee, addrefsing rson, which e in Englifh,

of the persoed by gramre conclude, e variations *ase*, admit of cion also. I present suf-

But there bonoun of the thers, which

derivation of this lique reference to periority of rank, y delicate. Per-

1.792. letter from Isabella to Albert.

: SIR, To the Editor of the Bee.

Ir the partiality of a brother does not mislead my judgement, I should hope you will not think the letters I inclose undeserving a place in your miscellany. They are the artless effusions of a favourite sister, in whom my soul delighted, who is now, alas ! no more! Every thing that belonged to her was justly dear to me; and I would not wish that a single word that ever escaped her lips, or came from her pen, should be forgotten. I cannot suppose that you will be equally partial as myself; but I own I should be much disappointed were you not interested in them. The dear innocent was scarcely sixteen when the wrote them; I have not dared to alter a single syllable of them myself, but I leave you to correct any little grammatical slip you may perceive. The names only are disguised, and the places and dates supprefsed, to prevent a too casy discovery of the persons. I am your constant reader and sincere wellwifher,

ALBERT.

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FROM ISABELLA TO ALBERT, LETTER FIRST. My dear brother,

I HAVE been here a whole week without writing to you, though I can alsure you I have waited with the utmost impatience till the time of your return; for since I have been at perfect liberty, I long very much to communicate my thoughts to you with that unreserved freedom we used to do at home; for as to letters from the boarding school, you know they mustall

132 letter from Isabella to Albert. Sept. 26. be read by the mistrefs, so that we can say nothing but that we are very well,--like the school exceedingly,-are vastly happy in our situation, and so on; now, as I disliked my situation very much, you may believe I avoided writing from thence as much as possible, so that I contented myself with writing to my mother in the common style, without thinking of addrefsing a single line to you.

Now that I can write with freedom, I take the first opportunity of expressing my unhappiness at ever having been sent to that boarding school. It is a sad. place indeed. Not that I do not think very well of our mistrefs,-I believe fhe is a very good woman; but having so many young misses to superintend, it is impossible the can look after them in the way I could wifh, or as I have been accustomed to at home. All the can do is to watch over their behaviour when under her own eye, and take care of their external corduct ; with regard to which points fhe is extremely vigilant indeed. But what is the consequence? The young mifses learn a habit of disguise and difsimulation that is quite flocking to me. You know that the most scrupulous adherence to truth has been ever inculcated to us, by our dear parents, as the basis of every virtue; and the smallest deviation from it has been ever represented to us as the certain inlet to every vice; so that disguise is, to me, the most fhocking of all things : yet all at a boarding school is disguise. The surface must be polifhed, whatever be within; and you would be shocked to see that some girls who are the most forward to do bad things, and in private prompt others to do them, can put on a most Sept. 26. ay nothing exceedingand so on; a, you may as much as th writing at thinking

ke the first efs at ever It is a sad well of our oman; but tend, it is way I could iome. All r when uncternal corextremely ence? The l difsimulaknow that has been as the basis on from it ertain inlet e, the most ng school is whatever be at some girls ngs, and in t on a most 1792. letter from Isabella to Albert. 133 plausible appearance in public, and deceive even our mistr fs into an opinion that they are the very best in the school. I hate this conduct. They find that I will not concur in plans for cloaking their faults; and I am cordially hated by them in my turn. Nor can you easily conceive how many mortifying rubs I met with on this account.

But I hasten from this disagreeable subject to one that will be much more interesting to you. The family with whom I am at present, and where I hope I shall remain as long as possible, is in every respect. different from our nunnery. It consists of Mr and Mrs Drury, and two daughters ; the youngest aboutmy own sge, the other some years older; the sweetcst, . girls you ever saw in your life ; and so open ! so unaffected ! so kind ! that you would be quite delighted. with them ! I cannot describe characters. You, have often told me that young persons cannot discriminate traits of character; I believe it. Yet I'am so delighted with the whole of the family, that I cannot help endeavouring to describe them a little. I. am sure if you saw them, you should find it impofsible to avoid telling me what they are; and I love them so much, and I love you so well, that I cannot, help withing you would love them too. Indeed, indeed, dear Albert ! you would love them more I believe than I can do, because you could appreciate their merit, better if you knew them.

Mrs Drury is, I suppose, about forty years of age, and is of a pleasing disposition and unaffected man-, ners; fhe is calm and deliberate in her words and actions; fhe is never in a flurry; and fhe has the af-

letter from Isabella to Albert. Sept. 26: 134 fairs of her family so arranged, as that you would think they went on of themselves without any effort or trouble to any one. Her face is to me very interesting; because I think I perceive in it that kind benevolence, my mother used so feelingly to tell us the polsefsed, though the never could be accounted beautiful. What particularly charms me, is the unaffected kindnefs and attention the bestows upon her hufband, who is the best of men. It was not at first that I perceived this; for you meet with no profusion of the common terms of endearment, as Sweet ! Honey ! Dear! and so on. My dear, uttered softly, and as if it were half by stealth, will sometimes escape her ; but even that is seldom. She makes no fuls about him ; no fracas about his health, or uselefs questions that tend to teaz:, under the appearance of kindnefs. She contents herself with being silently observant of every thing that will tend to please or displease him. She is particularly attentive to his taste at table. This attention is not displayed in culling out, in an ostentatious manuer; the nicest bits, and prefsing them upon him; but in noticing what it is he eats most readily of, and what he lets alone, when left to his own free choice. By this habit of quiet attention, fhe knows perfectly what is suited to his taste, both as to the nature of the victuals, and the mode of drefting them; and you cannot easily conceive what pains fhe is at to have these articles suited to his wishes. In cooking, the English in general far excel us. Indeed I think a great part of our best things in Scotland are spoiled by being badly drefsed. And how can it be otherwise? In ordinary families, where proper cooks cannot be afforded, the

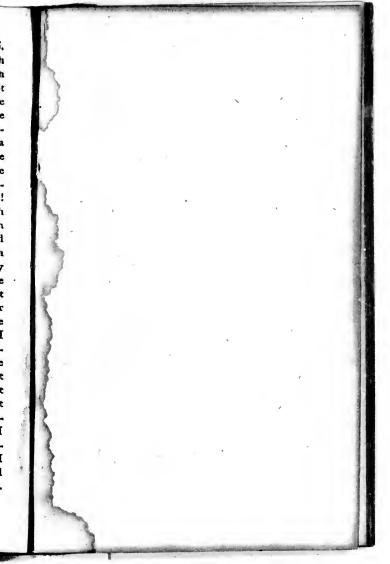
Sept. 26: rou would any effort very intethat kind gly to tell e accounted is the uns upon her not at first o profusion et! Honey! and as if it e her; but bout him ; stions that idnefs. She servant of please him. e at table. it, in an osefsing them eats most left to his tention, fhe te, both as de of drefceive what ited to his ral far exof our best oadly drefn ordinary forded, the

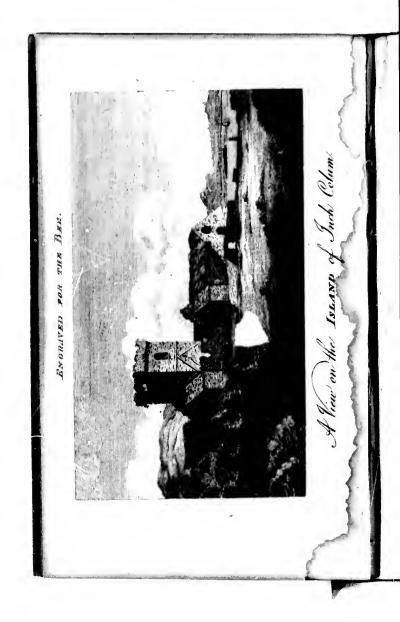
\$792. letter from Isabella to Albert. 135 mistrefs leaves the whole businefs of the kitches to an ordinary servant. Here, it is quite otherwise. In every family of moderate rank, the mistrefs is herself often in the kitchen to see that things are quite right. Mrs Drury is more than usually attentive to this department. Whenever the remarks that a particular kind of seasoning, or mode of drefsing a difh, is relifhed by her hufband, 'fhe sees it the next time done under her own eye; remarking, with the nicest distinction, all particulars, and taking care that the servant shall distinguish them as well as herself. Hence it happens that the victuals are, at this table, always drefsed in the nicest manner that can be conceived; and there is not a single article of provisions ever brought into the family, that is not made to turn out to the greatest account.

But it is not in the article of the table, alone, that Mrs D. discovers her attachment to her husband. She is naturally attentive to her family, and economical of every thing; but particularly of time : the is never one moment unemployed, nor will suffer one of her children to be so; but as Mr D. is of a studious disposition, and takes no pleasure in relaxation, without the company of some person in whose conversation he is interested; and, as he takes great pleasure in walking, if the accompanies him, fhe takes care that he shall never perceive that she is in the least embarraísed about leaving her employment when he seems inclined to walk. I have seen her, when busied about a thing in which the was very much interested, throw it aside with the greatest chearfulnefs when ever he appeared; so that you would think the had just been waiting on purpose

letter from Isabella to Allert. Sept. 26. 136 to accompany him. The good man then goes forth to walk with the utmost alacrity in the garden or in the park, where he takes pleasure in pointing out every new improvement he thinks of : nor could he adopt a single plan without her approbation. There also the remarks the objects in which he takes pleasure ; tl. e is not a stalk of a flower, or a twig of a tree, in which the sees he takes an interest, that the does not watch over with a particular care; but fie does even this without making any ostentatious parade of it to him. O what a delightful woman the is ! -She takes care to warn the girls not to touch such or such a thing, and to prevent their companions from doing so. The good man sees these attentions, and is highly delighted with them. He is in his turn equally attentive to her; nor does he seem to have any enjoyment in which the does not bear a part. It is these mutual attentions, in matters that too often are thought not to merit attention, which endear this happy pair to each other in such a remarkable manner. I have often observed this my dear Albert. And when I think that these must some time or other be separated, I cannot help even now fhedding a tear for the unhappy fate of the survivor. How hard is the lot of humanity, that even our highest enjoyments must be embittered with the recollection that they must some time have an end ! Why did this thought obtrude itself at present? It quite overcomes me. I cannot proceed farther. Indeed I can think of nothing else. Forgive me at present dear Albert ! I shall try to difsipate these dismal thoughts, and give you some farther particulars at another time. ISABELLA. May you ever be happy ! Adien.

. Sept. 26. en goes forth garden or in pointing out nor could he tion. There he takes pleaor a twig of a rest, that fhe care; but fie tentatious pawoman the is ! to touch such panions from tentions, and s in his turn n to have any art. It is these en are thought is happy pair nner. I have And when I ier be separatear for the ard is the lot oyments must at they must s thought abomes me. I think of nor Albert! I loughts, and nother time. ISABELLA.





1792. description of the plate.

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DESCRIPTION OF THE PLATE.

THE plate exhibits a view of the ruins of a monastery on a small island in the Frith of Forth, called Inch Colm, and a distant prospect of the city of Edinburgh, with the Pentland hills behind it.

This island was originally called EVONIA or ÆMONA. Under the first name it is described by Lesly bihop of Rofs *, and Buchanan distinguifues it by the last name †; both of which historians, with little variation, record the following transactions respecting it.

Alexander I. having been nearly wrecked, had the good fortune to get safe shelter upon this island, where he was forced to remain for three days that the storm continued. In memory of this event he built a temple here in honour of St Columba, from which the island derives its modern name, and endowed it with lands for the maintenance of canons. It is the ruins of this structure which are represented in the plate.

The building is now almost entirely unroofed, and in ruins. It has been of considerable extent, and, besides out-buildings, has consisted of a complete square, inclosing an inner court of no great extent. Most of the apartments have been vaulted. The church is an octagon of small dimensions, and tolerably entire at present.

The register of this abbey reports, that Allan Mortimer, laird of Aberdour, gave the half of his lands to

• De origine moribus & gestis Scut. Romæ, 4to. 1578, p. 220. † Hist. Ultraj. 8vo. 1668 p. 217. VOL. xi. 5 †

338 description of the plate. Sept. 26. God, and the monks of this monastery, for a burial place in their church for himself and his family." But these monks, instead of fulfilling the testator's intention, by interring their benefactor in their church, are said to have thrown the corpse in a leaden coffin into the sea, as they were bringing it from Aberdour. The place where this infamous sacrilege was committed is called Mortimer's deep to this day. Some time after this adventure the lordship of Aberdour, about the year 1126, descended to the Viponts from the Mortimers, by marriage, After the destruction of monasterics, the island came to the Stewart family; and now, with the western half of the manor of Aberdour, belongs to the earl of Murray, descended from the well known regent of this kingdom.

The island itself is situated near the north side of the Forth opposite to Aberdour, scarcely two miles distant. It is of small extent, not exceeding, on the whole, half a mile in length from east to west; and the greatest width lefs than a quarter of a mile. It consists of two eminences, with a neck of low land between, where the island is nearly cut through by the sea. On this low neck the monastery is built. The soil seems to be abundantly fertile; but it is, at present, so overrun with rabbits, that no use can now be made of its produce.

Sept. 26. for a burial his family. stator's ineir church; aden coffin Aberdour, was comay. Some Aberdour, posts from lestruction art family; or of Aberended from

side of the les distant. whole, half the greatest consists of between, y the sea. The soil at present, w be made A LIT FLE STORY ADDRESSED TO YOUNG LADIES. For the Bee. Away! cries Carlia, warm and young, With all your pedants grave and dud, Whose modesty ties up their tongue, Who sit like owls with wisdom overfull; Who must and nod in thought protound, With leaden eyes that iove the ground;

POETRY.

TINDER AND FIRE.

And who, insensible to love, And deaf to be only's ev'ry charm, Like walking statues coldly move About, and merely do no harm.

Ah no! 't's minners brifk and gay, That fill the breast with warm desire; In frort, give me the min whose clay is animatel with a little fire.

Bravo! cries Doctus, in his elbow chair, F like your spirit,—but take care ; Tinder and hire, howe'er su cold the weather, Without a *licence*, ne'er thould conte *ligetber*. , G. C.

ON CHARITY.

For the Bee.

The female mind, divinely kind, Celestial beams when sorrows flow, The honest heart, devoid of art, " Cannot resist the tale of woe; The kindred soul seeks comfort in the fky, Wafted, exulting, on a facility sigh.

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Sept. 26.

poetry. Went link'd to vue merey pity claim, And afk an off 'ring from thy hand, Thy tense exprefs that still thy aim Is to relieve, not reprimand; A sister hir'd from virtue needs a tear, For guilt and poverty are hard to bear.

The new made orphan's artlefs tale, Pleads not with thee, blest frierd! in vain; Thy sighs are blended with the gale, Thy heal ng balm relieves the pain; And Innocence, enraptur'd, will intrude Its May morn tears and smiles of gratitude.

Age, feeble, tottering to decay, A-kin to childhood, near the tomb, Awaken'd by thy fost'ring ray, Forgets the grave, the future's womb; And down the time-wörn check of eighty years, The grandsire's thanks descend in joy-dimm'd tears.

O Charity, benign ! still spare From thy rich store, with liberal hand, Comfort to ease the brow of care, And scatter plenty o'er our land; Give, for thou lend'st,—sow, for the gain is seven ; Peace is the spring time, and the hatvest heav'n ! Masca.

GLEANINGS OF ANCIENT POETRY.

TO SLEEP, BY DRUMMOND OF HAWTHORNDEN, anno 1616.

SIREF, Silence' child, sweet father of soft rest! Prince, whose approach peace to all mortals brings, Indiff'rent host to fhepherds and to kings, Sole comforter of minds with griefe opprest.

Loc! by the charming rod, all breathing things Lie slumbring, with forgetfullnefse pofsest, And yet o'r me to spread thy drowsie wings, Thou spar s, alas! who cannot be thy guest.

Since I am thine, O come! but with that face To inward light which thou art wont to thow, With fained splace case a true-feit woe; Or if, deate god ! thou doe denie that grace, Come as thou wilt, and what thou will to gueath ; I long to kife the image of my death.

6

ain;

.

years, m'd tears.

is seven; neav'n! Masca.

Y. nno 1616. est! is brings,

ngs () st. e ow, ucath ; Crinan canal.

1792.

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ON THE CRINAN CANAL.

It is now once more in agitation to have a canal cut acrofs the isthmus of Cantire, from Crinan to loch Gilp, an undertaking of such obvious utility, that it has been often proposed, but always abandoned for want of funds to carry it into execution. Whether these funds will now be found I cannot pretend to say; but Mr Rennie, so well known for his fkill in undertakings of this sort, has been this summer employed to survey this, and some other places upon the west coast of Scotland, by order of the society for improving the Britifh filteries, from whose enterprises it is to be hoped some good will result to the community.

That our readers may form some idea of the utility of this enterprise, let them be informed, in few words, that Cantire, (with Lorn,) is a peninsula of nearly eight miles in length, which separates loch Fine, at the head of which the town of Inverary stands, from the Western Ocean. This peninsula, in scarcely any place, exceeds twenty miles in breadth; but at one place in particular, Tarbat, it is so far indented, by two arms of the sea from the opposite sides, as to leave a neck of land of one mile only between them, and in anoother place, Crinan, the distant across is only five miles.

The navigation on the west coast of this p ninsula is more hazardous than on any other part of the west coast of Scotland, as it is in general a flat flore without harbours; and the sea being boisterous round the Mull of Cantire it is particularly dangerous to open boats; and as all the little commerce of the Western Isles into the Clyde must at present be carried on in such boats, scarcely a year passes in which some of these boats are not wrecked, and the sailors drowned in this long and hazardous voyage.

F41 Crinen canal. Sept. 265-Were a canal cut acrofs this isthmus, the voyage to these markets would not only be flortened nearly one half, but any opportunity would also be given to allow the fifthermen in loch Fine, to prosecute their fiftheries on the western coasts, when opportunities offered, as well as in loch Fine itself, to which they are at present entirely confined; and the fifthermen on the west could in the same way have accefs to loch Fine, when the herrings cast up there, and not on their own coast; for it often happens that they may be caught in myriads on the one side of the peninsula, when not one can be found on the other side of it.

The smallest size of a canal that is ever made, would serve for these purposes; but were it made of a size fufficient to admit buses, and other decked vefsels that usually navigate on that coast, the benefits arising from it would be augmented to a tenfold degree; and the improvements this would occasion, cannot be at present, with any degree of accuracy, appreciated.

The general opinion at first was, that the canal couldbe easiest made at *Tarbat*, as there the neck of land wasnot only florter, but the rise of ground between the twoseas considerably lefs than at Crinan; but upon a nearer investigation, it has appeared to every person of fkill whohas examined it, that the cut ought rather to be made at-Crinan.

The chief objections to that at Tarbat, are these: the mouth of west loch Tarbat runs considerably to the southward, so as to require a wind for navigating in that loch, different from that which would be wanted by vefsels in general which would pafs that way.

The loch itself is shallow, full of rocks, and the navigation in it by no means as safe as could be wished.

The whole track of land in this course to be cut, consists of a solid rock of granite, which could not be cut

Sept. 265 ige to these half, but an ichermen in tern coasts, Fine itself, ; and the ve accefs to not on their be caught en not one

ade, would a size fuffithat usually m it would provements' any degree

anal could f land wasn the two a a nearer f skill who be made at

these : the the souththat loch," vefsels in

he navigad. e cut, connot be cut

3792. Crinan canal. \$43 through without great difficulty, and at a considerable expence; and lestly, there would be great difficulty in finding water to supply the waste by lockage ; nor does it appear probable that a quantity sufficient could, in any way, be obtained to supply that waste, should the intercourse ever become considerable.

On the other hand, though the cut at Crinan must be longer, and the rise upon the whole greater than at Tarbat, yet the conveniences that would result from it, were it once made, appear to be much more than sufficient to counterbalance these.

The entry into loch Crinan is wide, and would admit of vefsels sailing out of it almost with any wind; and vefsels going southward or northward with a fair wind, would not suffer any retardment by being obliged to alter their course.

The bottom of the valley through which the cut must be carried is, for the most part, soft ground ; and the principal rock they would meet with in their course is lime stone, which would pay well for the digging of it; and, lastly, it can command a supply of water, with scarcely anyexpence, that would be much more than sufficient for any navigation that could ever be expected to take place there. Indeed the convenience in this respect is such here, as to be almost unrivalled any where, and therefore deserves to be slightly specified.

On an eminence at one side of the valley there is at present a fresh water loch (lake) of great extent, which forms a natural reservoir, that supplies a perennial stream that at present flows through the valley. The outlet from this lake is a narrow pass, which, if closed up with a proper dam, leaving a sluice for the purposes evanted, the surface of this loch might he raised five or six feet higher than at present; in which case it would find for .

Sept. 26:

Crinan canal. itself another opening to the Western Ocean, by which 144 might be discharged all the superfluous water that should ever be accumulated there by land floods or otherwise, without incommoding the navigation in the smallest degree. Thus would there be obtained, without any expence, a perpetual and abun lant supply of water, without ever being incommoded with one drop more than was wanted.

Several years ago, Mr Watt, the ingenious improver of the steam engine, was employed by the commissioners for managing the forfeited estates in Scotland, to survey both these passes, and to make an estimate of the expence of cutting a canal in each of them, from whose report the following particulars are extracted.

Abstract of Mr Watt's report and estimates of the expence of making a canal of different depths 'across the peninsula of Cantire, at Tarbas and Crinan.

cannet, at aproar and	By the Tarbat passage.	By the Crinan passage.
The total distance between high water ma on each side the isthmus,	rk - 1 mile	6½ miles
The greatest perpendicular rise abov		75 feet
The expence of a canal of seven feet d is estimated at, Ditto of a canal of ten feet deep at,		6 L 34 879 0 6 48,405 5 7
Ditto of a thorough cut without lock	3) * AD	
tides, at, Ditto of ditto, fifteen feet drep, at,	- 73.847 9	5

LOVE AND JOY. A TALE.

In the happy period of the golden age, when all the celestial inhabitants descended to the earth, and conversed familiarly with mortals, among the most cherished of the heavenly powers were twins, the offspring of Jupiter, Love and Joy. Wherever they appeared, the flowers sprung up beneath their feet; the sun thone with a brighter raSept. 26. , by which that fhould otherwise, smallest demy expence, sout ever beas wanted. improver of missioners for , to survey the expence whose report

be expence of peninsula of By th: Crinan

pafiage. 6½ miles 75 feet L 34 879 0 6 48,405 5 7

en all the ceind conversed erifhed of the g of Jupiter, flowers sprung brighter ra-

\$ 792. Love and Joy, a tale. 115 diante; and all nature seemed embellished by their presence. They were inseparable companions, and their growing attachment was favoured by Jupiter, who had decreed, that a lasting union should be solenuized between them, so soon as they were arrived at maturer years. But in the mean time, the sons of men deviated from their native innocence; vice and ruin overran the earth with giant strides; and Astrea, with her train of celestial visitants, forsock their polluted abodes. Love alone remained, having been stolen away by Hope, who was his nurse, and conveyed by her to the forests of Arcadia, where he was brought up among the thepherds. But Jupiter afsigned him a different partner, and commanded him to espouse Sorrow, the daughter of Até. He complied with reluctance; for her features were harth and disagreeable, her eyes sunk; her forehead contracted into perpetual wrinkles; and her temples were covered with a wreath of cyprefs and wormwood. From this union sprang a virgin, in whom might be traced a strong resemblance to both her parents; but the sullen and unamiable features of her mother were so mixed and blended with the sweetnefs of her father, that her countenance, though mournful, was highly pleasing. The maids and thepherds of the neighbouring plains gathered round, and called her, Pity. A. red-breast was observed to build in the calin where the was born; and while the was yet an infant, a dove, pursued by a hawk, flew into her bosom. This nymph had a dejected appearance,-but so soft and gentle a mien, that the was beloved to a degree of enthusiasm. Her voice was low and plaintive, but inexpressibly sweet; and the loved to lie for hours together on the banks of some wild and melancholy stream, singing to her lute. She taught men to weep; for the took a strange delight in tears; and VOL. XI. t

146 *improvements in manufactures.* Sept. 26. often, when the virgins of the hamlet were alsembled at their evening sports, the would steal in amongst them, and captivate their hearts by her tales, full of a charming sadnels. She wore on her head a garland, composed of her father's myrtles, twisted with her mother's cyprefs.

One day, as fhe sat musing by the waters of Helicon, her tears by chance fell into the fountain; and ever since, the muses' spring has retained a strong taste of the infusion. Pity was commanded by Jupiter to follow the steps of her mother, through the world, dropping balm into the wounds fhe had made, and binding up the hearts fhe had broken. She follows with her hair loose, her bosom bare and throbbing, her garments torn by the briars, and her feet bleeding with the roughness of the path. The nymph is mortal, for her mother is so; and when fhe has fulfilled her destined course upon the earth, they shall both expire together, and Love be again united to Joy, his immortal and long betrothed bride.

NEW INVENTED IMPROVEMENTS ON MACHINERY.

Unwoven cloth.

Therearts have been made for some time past, to weave by machinery. A gentleman, we have been informed, has lately obtained a patent for making cleth without weaving. By the account we have received, this cloth is made in imitation of felt, and therefore it can be made only of animal matters. By this mode of management, it is easy to conceive that stuffs of great beauty may be made at a small expence, by covering the surface with a small quantity of the finest kinds of furs; but how such cloths will last, time only can discover. Srpt. 26. afsembled at gst them, and charming sadaposed of her prefs.

s of Helicon, ad ever since, e of the infullow the steps balm into the hearts fhe had er bosom bare riars, and her path. The when fhe has th, they fhall united to Joy,

CHINERY.

to weave by informed, has thout weaving. th is made in made only of ient, it is easy be made at a a small quanich cloths will

1792. improvements in manufactures. Weaving machine.

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MANY persons have at different times invented machines for weaving a complete flirt, or coat, without a seam; these, however, have hitherto been all laid aside in practice, as matters of mere uselefs ingenuity. It is probable the same thing may happen with regard to an invention that has been lately announced in the newspapers, said to have been made by an artist near Halifar, with which be can weave a complete suit of clothes of any fafhion required, each article consisting of one piece only, without a seam.

New improvement on the spinning machine.

An important improvement we hear has lately been made in the spinning of cotton, by a gentleman who has the superintendance of one of Mr Dale's most extensive works in Lanarkshire. Hitherto it has been found to be impracticable to spin cotton yarn for the chain, or warp, by machinery turned by water: it was necessary to do it by hand, on the machines called jennies or mules. On these last machines the operator drew out the thread with unequal degrees of quickness, twisting it more at one part of the operation than another, which inequality, in the two branches of the operation, they did not know how to perform entirely by the machinery without hand. The gentleman of whom I speak, has contrived an apparatus by which he is able to effect this operation by machinery, alone, in a manner, it is said, much better than it can be done by the hand. He has, we hear, taken out a patent to secure his invention; and report goes, that he has. been already offered fifty thousand pounds by certain manufacturers in Manchester to assign his patent to them.

This was an improvement so much wanted, and at the same time so obviously within the power of machinery to perform, that it is rather a surprise it should have been so

148 experiments on gypsum. Sept. 263. long from being hit upon, than that it thould now be discovered.

AGRICULTURE.

COMPARATIVE TRIAL OF DIFFERENT KINDS OF OATS.

I et number of this work some observations were thrown out, tending to flow the great benefits that would accrue from an exact knowledge of the distinguilhing qualities of the different varieties of each of the kinds of grain that are cultivated in Europe. The following experiment made by Mr Crette de Palluel, a notedcultivator at Dugny in France, tends to confirm these remarks.

" I sowed," says he, "several kinds of oats, viz. from Artois, grain of a very fine quality; of Champaigne, the grain smaller and blacker; of Normandy, a grain white as barley; and the native corn of this country.

Result.

"That of Normandy, though having a hard and thick hufe, run into ear, and ripened ten days before the others; that of Champaigne was five days later; the corn of Artois, and that of this country were still five days later.

" The Normandy and Champaigne oats produce most straw; but they are very easily shaken."

This is rather an uncommon circumstance in this country; for I think most of the oats that are nearly and very easily shaken with us, are not nearly so productive of straw as some other sorts.

"I think, however," adds he, "that the white oat of Norniandy might be cultivated with advantage in this country, because of its coming soon to maturity, which would enable the farmer to reap it before his wheat; and also because it weighs more than twenty pound the setier, more than the same measure of our own kind of oats."

Sept. 26. 1 now be dis-

OF OATS. observations benefits that f the distinf each of the e. The follluel, a noted. hese remarks. its, viz. from mpaigne, the grain white. 1.

nd thick hufk, others; that f Artois, and

produce most

in this counrly and very roductive of

e oat of Northis counwhich would it; and also setier, more ts."

1792.

experiments on gypsum. 119 It is to be regretted that Mr Palluel has not specified the proportional produce of each on the same space of ground. It is farther to be regretted that our countrymen should be so thy at making comparative experiments of thissort. The benefits that would be derived from theser would be great. . .

EXPERIMENTS ON GYPSUM AS A MANURE.

When gypsum was noticed in this work as a manure, Bee, vol. i. p. 297, it was hinted that probably its effects might be different in America from what we experienced in Europe, chiefly because the graises which naturally spring upi there, are probably different from those that are commonly cultivated here. It even appeared from these experiments, that this manure operated more powerfully on one kind of vegetable production than another; the effects on grafe, were great, on wheat, scarcely perceptible.

The following experiments tend to show, not only that it operates differently on different vegetables, but also its comparative effects when tried with some other manures. The experiments were made by the same Mr Crette de Palluel; and both the former and this are recorded in the memoirs of the Royal Society of Agriculture in Paris., Experiment first.

" I divided a piece of lucerne," says he, "consisting of four arpents, into four equal parts. The soil was all of equal quality.

" On the first division I caused be sowed thirty bufliels of peat afhes, which cost fue livres.

" On the second thirty buthels of gypsum, which cost five livres ten sols.

On the third, thirty bushels of pigeons dung, value six livres.

" And on the fourth, nothing.

experiments on gypsum.

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Sept: 26:

" When compared with the last divison, the first produced fifteen bunches of lucerne more ; the second afforded only twelve of excess; the third produced thirty bunches more than the last."

Result.

Experiment second.

" The same quantities of each manure were laid on a moist meadow, of four arpents, divided equally in the same manner.

" The peat afhes produced nearly the same effect as above; the gypsum made a great difference in the crop ; the grafs puthed out much stronger, and was of a better. quality, and it yielded twenty-two bunches more than that which had nothing.

" Pigeons dung has long been known to improve moist. meadows very much, by extirpating bad kinds of grafses, bringing white clover in its stead, and augmenting the crop. It produced one fourth more."

These experiments still are lefs accurate than could be wished ; yet it clearly appears that gypsum, as a manure, in. this instance, operated more powerfully than peat affus, on moist meadow ground, though lefs so on luceruc. It is seldom we can get all that we desire, but when we adwance a step, our labour has not been in vain.

SHEEP FED ON LHE LEAVES OF TREES.

Without a rigid economy, agriculture can never be carried to its highest pitch of perfection ; and for the want of it much waste is sustained, and great losses incurred in many parts of Britain. In other countries they are often obliged to have recourse to expedients for supporting their live stock which we would despise ; but which we might often imitate with great profit. The following affords a lesson of this sore :

" In the month of June," says Mr Crette de Palluel, " foreseeing a scarcity of forage, and desirous of finding a fuod for my theep without consuming my vetches, I fell upon

Sept: 26:

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than could be as a manure, in. peat affics, on lucerue. It is when we adn., ES,

can never be d for the want es incurred in they are often upporting their hich we might wing affords a

Palluel, " foref finding a fuod es, I fell upon 1792.

151 a bint for the Bee. an expedient that succeeded with me perfectly well. I

sent a person every day to prune twenty elm trees, and leave the branches scattered in the way where my theep These theep, to the number of 550 were to pals. made an abundant repast on the leaves, and then the branches were bound up into fagots. My theep had no other nourithment till the harvest was got in. The elms have suffered nothing ; as I took care they should be properly pruned. I also, in the months of September and October, pruned my willows and poplars, all the branches of which I preserved in a dry state ; and this food was of great use to me during the winter for my theep. I can af. firm that those which were not intended for the butcher, lived upon nothing else but these branches.

" I also fattened 300 fheep with potatoes and cabhages, for which I got a very good price."

I have long ago remarked, that theep can be easily and well sustained during a storm of snow in winter, upon branches of fir trees, thus cut down daily, and given to them. Firs can be reared almost on every theep farm, without difficulty; and if plantations for this purpose were duly made, and carefully thus applied, many thousand head of sheep might be annually saved, that at present inevitably perifh. Yet I never heard of a plantation that had been made for that purpose; and very few that had ever been applied in that way at any time. The fheep that are thus lost may be said to be sacrificed by ignorance on the altar of pride.

A HINT FOR THE BEE.

CHILDREN are fond of listening to stories. Might not those who are about them, while curiosity is all awake, and the memory retentive, avail themselves of this circumstance, to introduce the most interesting parts and palsages of real history, instead of ghosts and hobgoblins?

S.pt. 26. so correspondents. 152 True it is few are able to do it in a proper manner, viva voce; but the attempt properly made, might improve both MICA. the speaker and the audience.

TO CORRESPONDENTS.

THE very polite remarks of Joseph Scaliger, though the arguments owe their origin chiefly to misunderstanding the opinions he combats, than any thing else, and are not therefore convincing, they have had a place as soon as possible, except for the same reason that induced the Editor to posspone the paper to which they allude, for more than an year and an half, wire, the fear that the subject could prave but very little interesting to a great majority of his readers. It is unfortunate that that paper shouls have been so inaccurately written as to give rise to these mistakes; and have been so inaccurately written as to give rise to these mistakes; and the writer of it would no doubt with to explain further, which would aug-ment the evil, by disgusting his readers; an that it is more adviseable for the Editor to leave things as they are. Indeed the matter is, in itself, of so little consequence, that readers may judge of it as they please, without any material deriments to the cause of literature : and so much was the Editor convinced of this, that, had it not been judged neccisary to pave the way for another, which he thinks of greater importance, it would not have been admitted at all. The Editor's best thanks are due for the very obliging terms in which this writer has expressed himself. It shall be carefully preserved.

The slight notices concerning Sir William Bruce, Se. are thankfully received ; farther particulars are requested. The elegint and interesting statistical communications respecting

America are thankfully received; together with the friendly hints that ac.ompanied them, of which the Editor hopes to avail himself. The singular letter of C. Skene is a great literary curiosity, and fhell

The Editor has been favoured with an interesting communication from the ingenious Mifs Rhodes, respecting the rearing of tilk worms in Buian, which thall appear in our next Poilologue is respectfully informed that there are hundreds of valuable

pieces in the possession of the Editor, of a much older date than the compieces in the poisesion of the zoitor, of a much outer date than the con-imunication referred to, which he has not found it possible to nvertake; though, from particular circumstances, others of a later date must have been occasionally inserted. With the utmost desire to oblige all his tor-respondencis, and at the same time not no disappoint his other readers, he must be allowed to adopt the conduct that seems the best calculated to be the date there ability the transmission of the dates for variding the imfulhi both these objects at once. He fears his desire for avoiding the im--putation of partiality, sometimes leads him farther than it ought to do.

It is with regret that the Editor declines the tafk that Merina requests of him, as he considers himself to be by no means qualified to perform it in a pioper manner.

The biographical memoir by R. IF. is received, and fhall appear with

the first convenience. Articles of this sort are very acceptable. W.W. says that the MOURNING MOTHER, inserted in p. 65th of this, woitume, has been by mistake, ascribed to him, and desires that this putlic nolice of it may Le g've...

S.pt. 26. nanner, viva nprove both Mica.

arguments owe nbats, than any s had a place ced the Editor an year and an ittle interesting at paper should mistakes ; and ich would auge adviseable for is, in itself, of please, without h was the Editor avec the way for not have been e very obliging 11 be carfully

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s worms in Bri-

reds of valuable e than the comobe to overtake; date must have lige all his torsher readers, he set calculated 'o voiding the imought to do. Merina requests de to perform it

all appear with table. 1 p. 65th of this, s that this pub<text><text><text><text><text><text><text><text>

MANY persons have heard of the fox who never saw one; many a lady has had her hen roost robbed by this crafty enemy, who never had the satisfaction of knowing what sort of a creature he was. The representation of that animal above given, being very exact, may serve to satisfy that curlosity. Ia size, it is nearly the same with that of an ordinary vol. xi.

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154 on the fox. Oct. 3. cur dog. Its colour, a rufset brown; the hair never lies sleek to the fkin. Its eyes are remarkably lively and brilliant, and very significant and exprefsive. Its tail is long and bufhy, which it seems greatly to admire, and frequently amuses itself by endeavouring to catch it as it runs round. In cold weather, when it lies down, it folds it about its head.

There are several varieties of foxes in Britain; but that above described is the most common, and approaches nearest the habitations of mankind. It lurks about the out-houses of the farmer, and carries off all the poultry within its reach. It is remarkably playful and familiar when tamed; but, like many wild animals half reclaimed, will, on the least offence, bite those it is most familiar with; and it is always of a thiewifh disposition.

The fox sleeps much during the day; but during the night it is active in search of its prey, which it often obtains, by surprising artifices; on which account the cunning of the fox has become proverbial; and numberlefs instances of it are related in all countries. He will eat flefth of any kind, but prefers that of hares, rabbits, poultry, and all kinds of birds. Those that live near the sea coasts will, for want of other food, eat crabs, fhrimps, muscles, and other fhell fifth. They are also fond of grapes, and do great damage in vineyards to which they can have accefs.

They are so greedy of honey as boldly to attack the wild bees for it; and frequently rob them of their stores, though much incommoded by the stinging of the bees.

Oct. 3. nair never ably livexprefsive. is greatly ndeavourweather, 1. itain; but 1, and apkind. It ind carries s remark-, like mae least ofand it is .

ut during , which it which acroverbial; n all counrefers that of birds. or want of and other d do great ave accefs. to attack b them of the sting1792."

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on the fox. The fox sleeps sound ; and, like the dog, lies in a round form. When he is only reposing himself, he stretches out his hind legs, and lies upon his belly. In this position he spies the birds as they alight on the hedges or places near him, and is ready to spring upon such as are within his reach. He rarely lies exposed ; but chooses the cover of some brake, where he is pretty secure from being surprised. Crows, magpies, and other birds, which consider the fox as a common enemy, will often give notice of his retreat, by the most clamourous notes ; and frequently follow him a considerable way, from tree to tree, repeating their outcries.

Foxes produce but once a year, from three to six young ones at a time. When the female is pregnant, the fetires, and seldom goes out of her hole. She comes in season in winter; and young foxes are found in the month of April. If the perceive that her habitation is discovered, the carries them off, one by one, to a more secure retreat. The young are brought forth blind, like puppies. They grow eighteen months, or two years, and live thirteen years.

There is so little difference between the dog and fox, that it is difficult to characterise them distinctly from each other. Yet the dog discovers a great antipathy to the fox, and pursues him with surprising keennefs. Experiments have proved, however, that the fox and dog may be brought to breed together; though not without difficulty. Whether the progeny can again produce, or if they be infertile, like mules, seems not to have been yet fully ascertained.

156 on the influence of taste. Oct. 3: Hunting the fox is one of the most favourite rural diversions among people of high rank in England. For that purpose, many privileged covers are kept in different parts of the country, where foxes are suffered to breed without annoyance, to the great prejudice of the farmers around. Were it not for this circumstance, foxes, as well as wolves, would probably have been long ago extirpated in England.

They fhelter themselves, and breed in holes in the earth, or among rocks, where they can find them; but not being capable of digging, themselves, they often. drive the badger out from the hole he has dug for himself, and take pofsefsion of it, as a safe retreatfor. themselves, and a secure nest for their young.

ON THE INFLUENCE OF TASTE. ON DOMESTIC AND SOCIAL LIFE

Continued from p. 120.

" Taste promotes the tranquillity and happiness of families and friends."

I AT first divided my subject, concerning the influence. of taste, into the scopes of individual, of domestic, and social, or public happines. I have in my last paper endeavoured to describe the natural weakness of human nature,—its tendency to the fruition of animal pleasure,—its disappointment in the expected continuance of young delights,—its self abasement, disgust;, and chagreen,—together with its various, but abortive attempts, to fill up that infinite vacuity, which is left in the rational soul, when man, rejecting intellec, ual nourishment, feeds upon garbage, leaving the Oct. 3% favourite k in Enged covers ty, where or, to the fere it not ves, would England. des in the them; but they often. as dug forretreatfor. ng.

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and friends."

e influence: nestic, and last paper. nefs of hu-of animal d continut, disgust;, but aborty, which ting intelcaving the **1792.** on the influence of taste. **157** ambrosia and nectar of Olympus, for the hufks of the prodigal, and the muddy waters of Lethe.

Here, (good Mr Editor,) I think I see some of your fair male or female readers, launching the Bee into eternity, by hurling it acrofs the room like a cock-chaffer, with a Heigh ho! what have we gotten here? A bore,—a twaddle,—a cruel lounge of sentiment. I always thought the Bee had too much of dull scaves. But now I expect in a week or two to see it stuffed with extracts from Whitaker, against. Gibbon, Blair's sermons, lord Hailes's defence of Christianity, or some such sad conundrums.

My dear friend ! no such matter, I afsure you ! Do you really think I could expect a failhionable creatture to sit and meditate upon one's end for five minutes, when any thing clever was a doing ? No, no; But my dear ! it is Sunday, you know, and it rains like a duck day; all the prigs at church ! not a soul on Princes's street, and Scratebont the hair drefser won't be here this age ! Come, will you step into my study for a minute or two, and look at Sherwin'sprint of the death of lord Chatham ?

So you have discovered, have you? that your father's park, and fhrubbery, is not the garden of Eden, and that neither London nor Edinburgh are the new Jernsalem.

I am extremely sorry for you my dear ! I remember well being like to hang myself about twenty. years ago, when I made the same most notable discovery.

on the influence of taste. Oct. 3. 158 I had received, like you, what is commonly called a capital education, that is, being made a very perfect automaton, to read, write, calculate, ride, dance, fence with the small sword, because pistols you know are now only used, perform the minuet de la cour; because you know country dances, a la mode champetre, are only to be practised in real life,-to play all kinds of music by the book and not by the heart, which you know destroys a performer totally; to admire Handell's church anthems and prayers,and to laugh at the church and, churchmen ! To know the title pages of an amazing number of fashionable books,-to drefs negligently among my inferiors,-to be dry, or non chalant, in company,-to avoid all brutal expressions of kindnels to my relations, and all odious connections with provincials, pedants, shopkeepers, mechanics, and unfashionable old people. To make a genteel little speech at a county meeting, or move an address in either house of parliament,-to repeat a' few agreeable passages from the Latin and English classics, and a few more from Rochefoucault, Mandeville's fable of the bees, Voltaire's philosophical dictionary, the Pucelle d'Orleans, and a few other books of wit and humour,-to use the slang language of statuaries, painters, architects, musicians, and pugilists, with precision and proper effect,-and to play all kinds of fathionable games at cards or dice, without making wry mouths, losing my temper, or rising up from a table where I was overmatched by playing with gentlemen, who were as good as myself, though they might not perhaps sport

Oct. 34 only called a very perride, dance, s you know de la cour; ode chame,-to play the heart, er totally; prayers,hmen! To number of among my mpany,-to o my relatiprovincials, nfashionable speech at a either house ble paísages a few more of the bees, ucelle d'Orumour,__to nters, archision and proinable games ouths, losing iere I was owho were as erhaps sport 1792: on the influence of taste. 159 it in public, with silk stockings, from the same fhops I might think it genteeler to deal with,—and last, though not least in importance, I was taught to apply a little bart/born to a friend or neighbour, when I found him exceedingly uneasy about his domestic happinefs. This I was taught to do with all imaginable grace and addrefs; and to put a final period to his sorrows if he fhould apply to me for the utmost satisfaction !

These noble attainments was I taught, or rather attempted to be taught; for I must tell you plainly, that I rebelled against my teachers, and would have none of their advice.

On the contrary, I kept my heart soft, my head hard, and my breast steelled, against all this mummery of barrel organ education.

I began with honouring my father and my mother, not that my days might be long upon the land; but because I listened to the voice of nature that cried within me. Loving them, I loved my kindred; loving my kindred, I wifhed to do good to their friends, and to fhine in the eyes of my domestic circle, which was composed of their connections. This led me to aspire to the love of virtuous fame, in a more extensive circle, and this attaiument I soon found to be impossible, without that taste and discernment which enables us to judge intuitively of the insides of things, after having examined their outward forms and aspects.

My mind became a kingdom to me, from whence I travelled into those that were foreign to me, studied their manners, their principles, and their customs, without either partiality or disgust.

160 on the influence of tatte. Oct. 3. I did not attempt to be a wonderful Christian. I was satisfied with such attainments, and with such pursuits, as were suited to my genius and abilities.

Like a good general, I endeavoured always to keep upon strong ground; and, if dangerously attacked, without having the expectation of victory, to make a good and handsome retreat, keeping up a respectable petite guerre, without attempting pitched battles, except when absolutely necessary to my safety and honour. By the constant use and improvement of this faculty of taste and discernment of what is true, excellent, and beautiful, a faculty which, like the etherial fire, is universally diffused, and can be called forth always by the attention of social intercourse, I rendered myself independent and happy. In the pursuits of useful and agreeable knowledge and occupations, I did not bear down, like a mad admiral, upon a whole fleet of pursuits, but singled out objects for which I thought myself able; and breaking thus the line, I carried of my prizes, and discomfited the enemy. I had never any occasion, like the commifsary, to throw myself down upon settees in despair, to exclaim.

" My God what a fatigue it is to be a gentleman !"

No, no ! it became my nature, but not my profession.

It was not necessary for me always to sleep, or stretch, or yawn, or lounge, or sit in the silent grave of whist; or fret at ground games, when there were no blood and thundering events to rouse up my mettle for the day.

Oct. 3. nristian. I with such nd abilities. ays to keep ly attacked, , to make a respectable battles, exety and homent of this hat is true, h, like the an be called intercourse, py. In the wledge and nad admiral, led out obnd breaking discomfited ke the comtees in des-

gentleman !" ot my pro-

to sleep, or silent grave there were use up my

on animal nutrition. 1792. I enjoyed the pacific flow of my full imagination, and the pleasing rotation of my rational samenefs. I joined the crowd always, when I had leisure; and took my own road when I saw the finger post that pointed to my duty, and to my chosen pursuit.

These, my dear friend, are the effusions of experience, and not of fancy ;- take them, living, as they rise,-use them,-try the experiment, and when we meet again let me know the result. But I hear Scratchoni's bell. Adieu, au revoir, vive là joye, et le bon gout.

Thus, Mr Editor, have I troubled you with a difsertation consisting only of one fhort paragraph, which I flatter myself, from its length, at least, will not prove tedious to your readers, and am, with regard, A. B. your humble servant,

DISQUISITIONS ON ANIMAL NUTRITION.

HAVING met with some curions elucidations respecting the natural history of the pangolin, (an account of which singular animal, accompanied with a figure, was inserted in the Bee, vol. x: p. 85,) together with some interesting speculations on the mode of supporting animal life in general, by Adam Burt, esq; inserted in the second volume of Miscellaneous Difsertations, &c. respecting Asia, I beg leave to lay the substance of these before the reader, with some farther observations on the same subject.

Mr Burt, who difsected the animal with care, had an opportunity of observing several particulars that 'eladed the notice of Mr Buffon, who had only seen a t x VOL. Xi.

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162 en animal nutrition. Oct. 3 dried specimen of it. In particular, he observes, that a general rule established by this celeb ated naturalist, viz. "that all animals which are covered with scales are oviparous," is clearly (contradicted by the pangolin diffected by Mr Burt, which happened to be a female, whose uterus and organs of generation were evidently those of a viviparous animal. Its dugs were two, seated on the breast.

In regard to other particulars, he observes, "that there are on each foot five claws, of which the outer and inner are small when compared with the other three. There are no distinct toes; but each nail is moveable by a joint at its root. It has no teets; and its feet are unable to grasp. The nails are well adapted for digging in the ground; and the animal is so dextrous in eluding its enemies, by concealing itself in holes, and its mong rocks, that it is extremely difficult to procure one.

"The stomach is cartilaginous; and, analogous to that of the gallinaceous tribe of birds: it was filled with small stones and gravel. The inner part of the stomach was rough to the feel, and formed into folds, the interstices of which were filled with a frothy secretion. The guts were filled with a sandy pulp, in which, however, were interspersed a few small stones. No vestiges of any animal or vegetable food could be traced in the whole prime vie."

From the habits of this animal, and these particulars respecting the stomach and intestines, our ingenious naturalist hazards a conjecture, which, though, bold at first, sight, appears upon a nearer investigation, to be not entirely destitute of probability. His

Oct. 3. erves, that ed naturavered with cted by the pened to be ration were Its dugs

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inalogous to it was filmer part of ormed into with a froth a sandy lafewsmall getable food

se particu-, our ingech, though, investigaoility. His 1792. on animal nutrition.

163 conjecture is, That this animal derives at least a part of its food, if not the whole of it from mineral substances. This opinion appears bold, rather perhaps hecause we have not been accustomed to think in this manner, than because it is contradicted by experience. It is indeed true, that the greatest part of animals which come under our more immediate observation, draw their principal nutriment either from the animal or the vegetable kingdom; and because this rule is general we have, perhaps too hastily, concluded it is universal.

Our acute naturalist observes, " that we have no clear idea of the manner in which vegetables extract their nourifhment from the earth ; yet the fact being so, it might not be unreasonable to suppose, that some animal may derive nutriment by a process somewhat similar." If we adopt the maxim of Buffon, ' que tout ce qui peut être' est, '(whatever can be, is,) we shall be led to this conclusion. " When other substances than stones," Mr Burt adds, " fhall be discovered in the stomach of this animal, my inference from what I have seen must fall to the ground." Here, however, we think the concession is too liberal. It may happen that there may be animals, which though they can derive nutriment from mineral substances, may likewise be capable of extracting nutriment from animal or vegetable food. All carniverous animals, we know, may be brought to live on grain. As justly might we then conclude, that if any kind of grain should be found in the stomach of a carnivorous bird, intermingled with animal substances, that this bird derived its whole sustenance from the grain, as that

164 on animal nutrition. Oct. 3. the pangolin could derive no sustenance from the miy peral substances found in its stomach, if a single particle of grain should be discovered there.

Setting aside therefore this concession of our author as unnecessary, we proceed. "But if", says he, "like other animals with muscular and cartilaginous stomachs, this singular quadruped consumes grain, it must be surprising that no vestige of such food, was found present in the whole alimentary canal; nor can it be inferred from the structure of the stomach, that this animal lives on ants or on insects."

He observes farther, from the report of experiments. by signior Brugnatelli of Pavia, on the authority of Mr. Crell, "that some birds have so great a difsolvent power in the gastric juice, as to difsolve in. their stomachs flints, rock chrystal, calcareous stones,. and shells : and nothing, we should think, that is soluble in the stomach of animals, may not be thence absorbed into the circulating system; and nothing can be so absorbed without affecting the whole constitution," - But if nature prompts certain animals to seek with eagernefs, and to swallow with avidity, certain mineral substances, as other creatures thow a natural fondnefs for animal or vegetable substances, from which we conclude they derive their nourifhment, is it not equally natural to suppose that the first set of animals equally derive nutriment from the substances nature prompts them to choose, as the last ? devent in all the part and the

He farther observes, that, though Spallanzani found by experiment, when he attempted to feed fowls untinely upon stones, that they died; yet it can by Oct. 3. m the mi, ingle par-

f our au-', says he, tilaginous s grain, it. food, was l; nor can nach, that

periments . authorio great a difsolve in. ous stones. hat is soy be thence d nothing vhole conanimals to avidity, ures thow substanheir noupose that utriment o choose, 1 4 1.

feed fowls it can by

17925 en animal nutritions. 165. no means be inferred from thence, that they derive no nutriment from the stones they naturally pick up. We know that man eats salads by choice, and no one will doubt that he derives nutriment from them ; yet. I question not, that were men to be fed entirely upon salads, for any length of time, very few could . live upon that food alone. Even fresh succulent fruits, which are invariably admitted to be highly nutritious to man, when taken with other food, would, if taken alone, prove fatal to many of the human species : but there can be no doubt that the result of the experiment would prove fatal to the whole human race, should it be conducted in the same manner with those of Spallanzani, on chickens. Were a philosopher, upon difsecting a human stomach, and finding in it some raw vegetables, to try if man could be fed on grafs alone, or any other vegetables that came to hand, there can be no doubt but they would all die, How false then would his conclusion be, if from this experiment, he inferred that man could desive no nutriment from raw vegetables ? How infinitely more erroneous would it be to infer, that no other animal could derive nutriment from raw yegetables of any sort !

Fowls, most afsuredly, not only swallow, but digest small stones. Manufacturets who use dung of poultry, never, I believe, find it mixed with stones; but as they require a daily supply of small stones; these must of course, be digested in the stomach, and be absorbed into the lacteals, from whence it is natural to infer, they contribute in one way or other to the health and nutriment of the animal.

.. . .

166 on animal nutrition. Oct. 3. 'From these, and other considerations, our author sees nothing absurd in supposing that the pangolin derives some part, of its nutriment from the mineral kingdom.

I will frankly own that these considerations have had so much weight with me, as to make me believe that we have too hastily adopted the opinion that animals can only derive nourifhment from animal or vegetable substances; and on taking a superficial glance of animated nature, there are innumerable facts present themselves that seem to give weight to this new adopted opinion; a few of which I thall briefly enumerate.

1st, Live toads have been frequently found in the heart of the most solid stones, where no vegetable or animal substance could come near them. Here mineral substances alone would seem to have supported life.

2d, The pholades cats through the most solid rocks. It is true this animal always chooses its habitation if such places as can be moistened, at least at times, with sea water, from which some may suppose it derives its nourifhment; but can we suppose it would fhow such a decided fondness for the stone itself, if it derived no kind of sustenance from thenee?

3d, Earth worms are not known to gnaw roots of any plants; and are always found full of a slimy earth. They do indeed draw into their holes straws, and other decayed vegetables, which they possibly employ, in a putrified state, as food; but we have no reason to think that, where these substances are not to be had, the worms would die for want of them.

Oct. 3. , our author the pangolin the mineral

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naw roots of l of a slimy ioles straws, ey possibly out we have bstances are for want of

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on animal nutrition. 167 4th, Sea worms, which are gathered by fifhermen for bait, are in like manner full of sand : nor do we know that they ever search for vegetable substances of any sort. Indeed these abound most where nothing of that sort could be had.

5th, Gold and silver fifnes, and several other sorts of fishes, can be kept alive for a long time in pure water, in which no kind of animal or vegetable substance can be perceived. On what then do these subsist?

Should it be said they derive their nourifhment from small insects they extract from the water, it would be only putting back, but not removing the difficulty; for still the question will recur, on what do these small insects feed ?

I know these fifthes will eat bread, if given them, as well as flies, and several other kinds of animal food; but this only tends to flow that nature hath endowed them with a power of digesting various kinds of food. Man could live on either flesh, or grain, or succulent fruits or salads; he may be therefore called a carnivorous, a granivorous, a frugivorous or a herbivorous animal. He might be fed upon any one sort ; but he would also take others with avidity, if they came in his way, like the poor fifhes we treat of.

6tb, Is it, however, certain, that man does not derive sustenance from the mineral kingdom, as well as from the animal and vegetable substances he devours ? Does the water he drinks, which is so efsentially necessary to his existence, furnish no part of subsistence to him? it seems unreasonable to suppose it. The following case, among many others, confirms this idea.

108 on animal nutrition. Oct. 3-About twelve years ago, a woman in Rofsfhire lived several years, without tasting any other kind of food, but pure water alone. The fact was authenticated in the most undeniable manner; and Sir John Lockhart Rofs afsured me, that he visited her after the had been on that regimen several years, and found her complexion fresh and clear, her breasts plump, and her body far from being in that emaciated state he expected.

ith, I have often thought it was a matter of great difficulty to account for the manner in which fillies in the sea were sustained. The number of these is very great ; probably much greater, taking into the account the whole depth of it, than the same extent of surface on land; yet few are the vegetables produced in the bottom of the sea; and of these few, a very small portion of them are consumed by the aniinals which inhabit the ocean. We know, in fort, not perhaps a dozen of animals that inhabit the ocean which feed upon vegetables of any sort. On what then do fifthes live? the answer is ready ; on other fifthes. And true it is, that most kinds of fiftes devour those that are smaller than themselves. But still the difficulty recurs. If large fith devour smaller, what do these smaller ones, down to the very smallest, live upon? They must come at last to derive their nutriment either from vegetable or mineral substances. But I have already said, that the vegetable substances produced in the sea are few ; and these few arc not consumed by animals, in a great degree. It would seem therefore undeniable, that some of the marine aniOct. 3. Rofsflire other kind t was auner; and he visited eral years, her breasts hat emaci-

er of great ch fisces in of these is ng into the ame extent tables prohese few, a by the anin fbort, not cean which iat then do ifhes. And those that e difficulty at do these live upon ? nutrimeut es. But I ances proc not coneuld seem arine ani1792. on animal nutrition. 169 mals must derive their sustenance from a similar source with that of vegetables.

8th, This doctrine seems to be peculiarly applicable to the herring. Herrings are known to come in shoals, and in so close and compact a body, as sometimes, for miles together, to admit of being lifted out of the water in buckets, nearly full of fith. The fifh, when in this situation, are usually fat, and in the highest state of perfection; but where those little filhes find food in such abundance as to keep them in such high health, if they do not, like the stalks of corn, draw sustenance from the element, in which they live, it is impossible to conceive. They do not devour other fifthes, as is common among the inhabitants of the water ; for all fishermen agree in saying that nothing is ever found in the stomach of a beatby herring, except a small quantity of slimy matter, more resembling mineral than animal substances. This then seems to be one clear evidence of fifh deriving their food entirely from water, as plants do on thore. Myriads of other sorts of fifh, of smaller size, may probably derive their food from the same source, which, in their turn, like vegetables, furnish subsistence to animals of a larger size.

From all these considerations, I think there is reason to believe, that there may be some animals, which, like vegetables, derive the whole of their subsistence from the mineral kindom: that the greatest part of them draw the principal part of their subsistence from the vegetable and animal kingdoms; but that there are, perhaps, none which do not derive vol. xi. X †

170 on silk worms. Oct. 3. a part of their sustenance from the mineral kingdom.

Experiments, however, are here wanting to develope facts so fully as to remove all kind of doubt on this subject.

ON SILK WORMS.

LETTER FROM MISS HENRIETTA RHODES.

SIR, To the Editor of the Bee.

Your mind seems to polsefs such a degree of liberality, as well as energy, that I make little doubt but that you have ascribed my silence to its right cause, and will readily extend that pardon to me, which I must believe I deserved before I dared solicit it. To write a letter to you, without having any thing material to communicate, would have been an infringement upon that time, which is so valuable to yourself and others ; I, therefore, determined to wait until I received an account of the eventual succefs of a further experiment, which I had intreated a friend to make upon the lettuce, as food for the silk worm. As for myself, the removal to my new habitation occupied so much of my time and attention; that I was obliged to abandon the design of rearing any this summer. The friend I speak of is mifs Croft of York, who very obligingly kept a few silk worms entirely upon lettuce leaves. She affured me they were equally as strong and healthy as any fue had seen ; and that, when, by way of trial, fhe has dropped a mulberry leaf among the lettuces, they

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rec of libelittle doubt -to its right ardon to me. e I dared sohout having ld have been 1 is so valu-, determined the eventual had intreatfood for the l to my new e and attene design of speak of is y kept a few , She afsured althy as any of trial, fhe ttuces, they

171: **tasted of the former, but soon returned to their usual food.** The silk collected from these, the sent to the Adelphi society in London.

I must now tell you, that fhe fitted up a small room with a stove, in which fle constantly kept fire. I am sorry to add the disappointment which attended .her manufactory, because her persevering ingenuity merited the highest success; but I imagine it arose from the extraordinary weather we have had; for the rain has been so incefsant that we have numbered but few dry days this summer. She had so' many silk worms that fhe found it impossible to devise means to dry the mulberry leaves thoroughly, before they were given to them ; and in consequence of their living perpetually upon damp food, they had an epidemic sickness, and many thousands of them died. I account for her lofs in this way, because I have always understood that a wet' summer in Italy is productive of exactly the same effects. It could not be owing to cold, because her room was kept properly heated. What general Mordaunt has done with his manufactory, I have not yet heard; but I must be a petitioner to him soon for eggs; and if I gain any information from him, which I think you will like to know, I will immediately acquaint you. with it.

You have treated the subject with so much judgement, that I am more than ever convinced of its practicability; but I must differ from you in the mode of constructing your *hot house*, from which *light*, I should think, ought not to be excluded. Ought we not to study the situation in which that creature is placed

172 on silk worms. Oct. 3. by providence, whose culture we are solicitous about? The silk worm seeks no fhelter, and is a native of that climate where there is, in fact, hardly any night. If I am mistaken in this idea, I have always been so strongly prejudiced by it, that I have ever fancied those silk worms grew lefs rapidly that were farthest removed from the windows, and have therefore constantly kept moving the pans. I rather, think, too, that the silk worm owns no night ; for I never could perceive that it slept in its worm state, unless that inertness which is discoverable when it parts with its fkin, be called sleep. Did you ever remark the number of eyes the silk worm has ? There appears to me to be many clusters of them. Perhaps they may have been given it to enable it to endure the perpetual day, which may be necelsary to the completion of its labour ! If I could choose a situation for them, it fould certainly be a southerly one.

Your idea of a moveable canvas frame, to be placed over the lettuce bcds, is excellent, and I fhall adopt it next year; the lettuces are, however, even in a dry season, full of moisture, especially those that have cabbaged, which are the sweetest and best.

If ever you receive any eggs from the large worm which Sir William Jones has discovered, I fhall greatly thank you for a few of them; and certainly those might be sent to us at any time; for surely it would not be difficult to find a person on board of a fhip who would take care of a dozen; and as many lettuces, planted in a little wooden box, might be kept growing against the time of their hatching.

Oct. 3. solicitous nd is a naact, hardly I have althat I have apidly that , and have . I rather, t; for I nen state, unle when it d you ever worm has 3 rs of them. enable it to e necelsary ld choose a a souther-

ne, to be and I fhall ever, even those that best. rge worm d, I fhall d certainly r surely it board of a d as many might be hatching.

17922 on silk worms. 173 You who have perhaps known the difficulty of these things, will no doubt smile at the case with which I have settled it, and patiently wait for the more sure, though slower method, which your ingenious relation has adopted * and to which I give my full admiration, and fervent wifhes for succefs.

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The year before last, I had a black silk worm sent me from South Carolina, which my friends wrote me word was of a new and much more hardy sort. They grew to an uncommonly fine size, and the cocoons were larger than any I ever had; but when I came to wind them, I found the texture of the silk so fine, and that it was fixed so firmly together by the gluten, that it was utterly impossible to reel off the thread. I hope these are not the sort that Sir William Jones speaks of; for if so, they must be carded before they can be manufactured. I hope my frank will convey a few of them to you, and then you will see the impracticability of extricating the silk +. Whenever you can spare a few moments I shall feel highly gratified in the pleasure of hearing from you : and I remain, Sir, your much obliged and very sincere friend, Bridgnorib, 2

HENRIETTA RHODES.

OBSERVATIONS SUGGESTED BY THE ABOVE.

Sept. 12. 1792. 5

The public are much obliged to mifs Rhodes for the many useful hints the has communicated on this very interesting subject. The foregoing letter seems

+ I have many bundreds of these now by me, which I can put to no use.

^{. .} I have not the honour to number this gentleman among my relations, though we were school follows, and intimate friends from our earliest infancy. Edir.

174' on silk worms: Oct 35. fully to prove the practicability of nourifhing silk worms entirely upon lettuce, if they be kept in a warm enough temperature of the air, while on that food; indeed it appears that these worms not only lived upon lettuce, but even preferred it to mulberry leaves.

This fact being established, it next will be necefsary to ascertain which kinds of lettuce answer the purpose best. There are about thirty kinds usually sold in the seed shops, which differ yery muchfrom each other. The tenderest appears to me to be that called Spanifs montree, and next to that the *ice*, or cofs lettuce when cabbaged. This last would probably resist rain the best. If any person wishes to make a comparative trial of all the kinds, at the p oper season of the year, I' shall endeavour to procure the seeds for them, if they have no other opportunity of obtaining them.

As we now see that the silk worm eats lettuce, and thrives upon it in proper circumstances, it is by no means impossible but other kinds of food may be found which will answer the same purpose. I recommend the chicorium as a proper plant for trial. The chicorium intybut is, like lettuce, a lactescent plant; the common endive is also of the same clafs.

There is nothing unusual in the circumstance of a certain degree of heat being required to make animals thrive, when kept upon a particular kind of food, that could be dispensed with if they were fed on another sort. Farmers now begin to learn, from experience, that bullocks fed upon turnips, if kept

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ettuce, and it is by no od may be se. I ret for trial. lactescent same clafs. istance of a. make aniar kind of y were fed earn, from ps, if kept

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on silk warms. 175 in a cold place, are apt to be so lax in the belly as not to fatten quickly. If they be kept warm, this inconvenience is not felt; the animal is at all times in a more costive state, and comes on in fattening much more rapidly. This is a branch of rural economy not so generally understood as it ought to be ; and mifs Rhodes has great merit in having suggested the idea that the health of the silk worms may be affected by the same circumstances.

As to the article light; it is very possible I may be mistaken in that respect, having formed my opinion merely from the report of others. When I said that windows might be saved in houses to be made for silk worms, it was my intention however only to suggest that such large windows as are required in stoves for plants, are by no means necessary ; so that the great expence of glafs might be sayed. Whether this lady's opinion, that light is of great utility to the silk worms, or the opinion of Mr Wright of Paisley, with several others, that they thrive better in the dark, be the best founded, I pretend not to say ; but. as there is a doubt on this subject, it would seem that if the worm be affected at all by this circumstance, it can be but in a slight degree, so that it cannot be a matter of very great importance. It is proper however it should be adverted to by experimenters.

However this may be, there seems to he no reason to hesitate in agreeing with mifs R. in approving a south exposure, where that can be commanded; not only because that is the warmest, and therefore will save most fuel; but also because the heat thus produced is lefs liable to generate noxious vapours, than

176 on silk worms. Oct. 3. that by a stove. I fhould think therefore that a south exposure, with a few glazed windows, and a considerable number of windows closed with flutters, that could be opened during the day time, when the sun fhone bright, and the weather was in other respects favourable, would be the most eligible.

Every person who has had the management of silk worms on a large scale, complains of the noxious vapour that is generated by them, unlefs they be kept very clean, and the house properly ventilated. Dr Anderson in Madras has found this kind of ventilation so necessary for the health of the animal, especially in damp weather, that he has contrived a kind of cane matting for admitting the air freely; which has there answered to admiration. It is surprising however that in Italy, and other warm climates in Europe, where the silk worm has been so long reared, so few contrivances should have been adopted for obviating this inconvenience; for it seems to be an undeniable fact, that the silk worm itself dies in great numbers, in every case where this article of cleanlinefs is neglected.

By some late experiments made by *M. Faujas de* St Fond, and recorded in his history of Languedoc, it appears that the silk worm 's much hurt by this foul air. From the experiments of *M*_c Ingenhouz we also know that all decaying leaves produce mephitic air in great abundance; and as silk worms are constantly fed upon leaves in this state, it must necefsarily abound very much in the places where they are kept, if proper means are not taken to remove it. As this mephitic vapour is more weighty than com-

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gement of the noxiefs they be ventilated. nd of venanimal, esontrived a ir freely; It is surwarm clis been so ave been aor it seems vorm itself ere this ar-

Faujas de Languedoc, urt by this genhouz we ce mephitic ns are conust necessawhere they o remove it. y than com-

1792. 1 on silk worms. 177 mon air; and as the silk worm is in Italy always kept upon solid tables or fhelves, which will preventit from sinking below them, it follows, that the worms. themselves, unlefs when the house is freely ventilated, must be always kept in the mephitic region ; and if they are not suffocated by it directly, like the. dogs which are thus poisoned in the grotto del Cane in Italy, they may be subjected to various disorders that. prove hurtful. This seems to be indeed one of the. unobserved causes of those unaccountable mortalities that sometimes destroy the best founded hopes of the silk rearer. . . .

If this flould be the case we fhall probably be able. to obviate it by adopting a cleanlier mode of management than is there practised. Dr Anderson of Ma-. dras has thrown out some hints that will greatly facilitate this businefs.

One of the most difficult branches of the management of the silk worm hitherto is the cleaning without bruising them. To avoid this inconvenience, the peasants . in France and Italy frequently allow the whole litter to remain without ever cleaning them, which is the cause of that unwholesome stench, that has been so often remarked by those who visit the places for rearing silk sorms in these countries. This difficulty, he finds, m. be effectually removed by providing a. net; or what would be still better, a wire bottomed . frame, wrought into large mefhes like a riddle. Have. that made of a size exactly sufficient to cover the. wooden box in which the worms are kept. When you mean to thift them, spread fresh leaves into the wire basket; and let it down gently over the worms. VOL. YI. +

on silk worms. Oct. 3. 178 till it comes within their reach. They no sooner perceive the fresh food than they abandon the rubbish below, and creep through the mefhes, so as to fix themselves upon the leaves; then by gently raising the fresh balket, and drawing out the board below, (which ought to be made to slip out, like the slip bottom of a bird's cage,) you get off all the excrements and decayed leaves, without incommoding the worms in the smallest degree; and along with the litter you will draw off an inch or two in depth of the foulest mephitic vapours. To get entirely rid of these, the board, when thus taken out, fhould be carried without doors, and there cleaned; and the slip board immediately replaced to receive all the excrements and offals. After it is replaced, the wire frame that had been elevated a little, may be allowed to descend to a convenient distance above the board, without touching it. Thus will there be left a vacant space for the mephitic air to fall below the worms, so as to allow them to inhabit a wholesome region of the atmosphere.

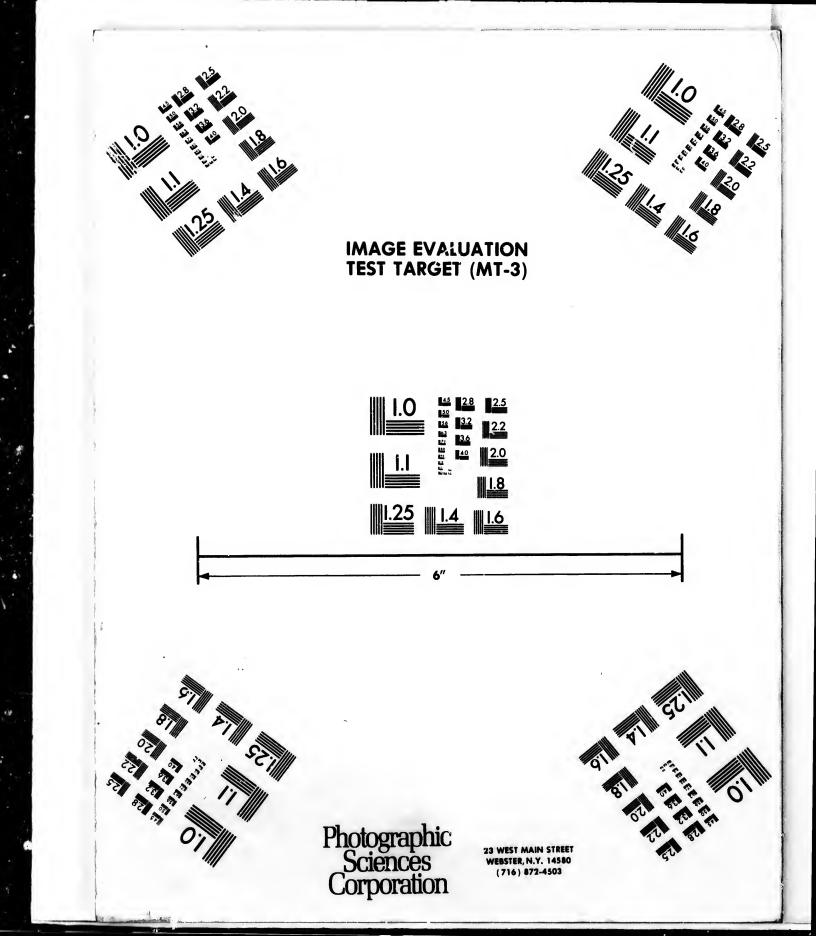
When a fresh supply of food is to be given, before cleaning, the wire frame ought to be let down as close to the board as can be safely done, and another wire bottomed frame put over it, with fresh leaves, as before described. When the worms have abandoned that in their turn, let the slip board, together with the lower wire frame, be drawn out and removed; and so on as often as necessary. To admit of this alternate change, every table, consisting of one slip board, ought to have two sets of wire-bottomed frames of the same size; the slip board to be always put into its place immediately after it is cleaned, and the wire

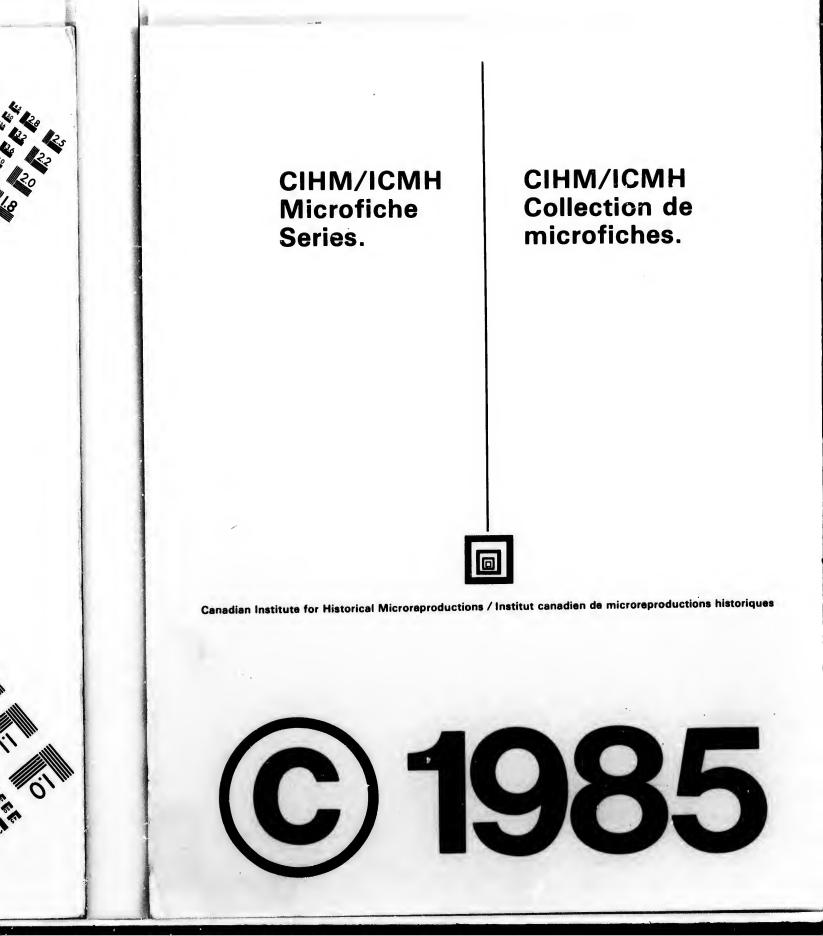
Oct. 3. sooner perrubbish beto fix theming the fresh ow, (which p bottom of ents and deorms in the ou will draw st mephitic , the board, ied without ard immediits and offals. ad been eleaconvenient git. Thus the mephilow them to phere.

iven, before own as close another wire ves, as before oned that in with the lowit; and so on his alternate slip board, d frames of ays put into and the wire

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• 1792: on sile worms. 179 frames reserved to be afterwards placed over the other.

By this mode of management it is probable that the worms would be saved from the diseases engendered by the mephitic air; and the numerous deaths that are the consequence of it avoided.

But still farther to insure this salutary effect, andther measure, recommended by some philosophers, . might be conjoined with it. Every one now knows that quicklime absorbs fixed air with great rapidity. From this known property of quicklime Mr Blancard, a gentleman in France, by way of experiment, went even so far as to strew quicklime upon the worms themselves *. This harfh process, he found not only did not kill the worms, but they continued in health, and more vigorous than before, and yielded larger cocoons they others which had not been sotreated. Instead of this mode of applying quicklime, however, I thould advise rather to strew a thin stratum of fresh slaked quicklime upon the slip board, each time is was cleaned, immediately before it was put into its place. This would absorb the mephitic gas as it was generated, and descended upon the surface of the quicklime. Thus would the worms be kept continually in an atmosphere of pure air t. Were the walls of the apartment to be frequently

• Momines par la societé toyale d'agriculture, de Paris ; trimestre de printems, 1789. + To put this question beyond a doubt, Mr Blencard made the fol-

howing comparative experiments, which were several times repeated.

diameter, closing the mouth with cork stoppers. After which I placed in each of them, in their second life, (so I translate sue, which means the singe between the different eicknefses,) twelve silk worms, which were. fed four times a-day; and which I confined in this kind of prison all.

valued with quicklime and water, it would tend much to promote cleanline's at a small expense, and augment the healthine's of the worms, as well as that of the persons who attend them.

The circumstance of the silk worm never sleeping during the night, is a new particular respecting the natural history of this animal, the notice of which we owe to mils Rhodes, and which I suppose is perfectly well founded. From this very circumstance, however, it would seem that nature had intended that light or darkness should make little difference to this singular animal., My fair correspondent has, I should suppose, committed a small mistake when the supposes the silk worm is a native of polar regions, where only, there is no night at one season of the year ; for though some parts of China, which seems , on all hands to be allowed to be the native place of the silk worm, approach to the polar circle, yet, as the greatest part, of that country extends towards the tropical regions, where the day and night are nearly of an equal length, we may rather believe it was there, where the mulberry thrives best, that the silk worm was first produced. But this is a matter merely speculative; for we know that nature may

their life, without taking away either their dead companions, or their ordure or litter. I sprinkled with chalk the worms of only two of these jars, and kept the two others to compare with them.

" In those without time, I neves obtained neither more nor lefs than shree small and imperfect cocoons, (chiques on souffard,) and in the two that were aprinkled with lime, I had very often twelve, and never lefs than nine full sized firm coccons."

This experiment affords the most satisfactory proof of the utility of this procefs. From a number of trials he found, that even when the worms were covered with a very large proportion of lime, they serve were in any way incommoded by it,

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ever sleeping especting the . of which we se is perfectistance, howntended that erence to this ident: has, I ake when fhe polar regions, season of the which seems tive place of circle, yet, as ends towards nd night are er believe it best, that the is is a matter : nature may bions, or their ortwo of these jars,

note not lefs than Fard,) and in the twelve, and never

f of the utility of at even when the lime, they acver 7792. *en silk worms.* 18't be in many cases helped by art, and even in some cases improved by adopting practices directly contrary to it. If bees were left without hives, which nature provides for them only in a very imperfect manner, the whole race of them in Europe would quickly be exterminated; and though cattle were doubtlefs intended by nature to run abroad in the open air, and calves to enjoy the benefit of light; yet it is well known that neither of them fatten so well in these circumstances, as if they be confined in total darknefs, and there fed abundantly.

The mostality among the worms, during this wet season, is exactly what might have been expected. -Had the lettuce, however, been kept under a moveable cover from rain for a day or two before using, especially if open to the sun at the same time, which, in a proper exposure, may be in some measure effected, this evil would have been obviated. Since the receipt of mils Rhodes's letter, I have been favoured with the following communication from another lady, who is exceedingly accurate in ther observations, and who is, from motives of philanthropy, extremely anxious to forward this undertaking ... It tends to flow that by great attention it might be possible, in some cases, to obtain even fresh dry mulberry leaves during a rainy season, were the superintendants of silk works extremely attentive ; though on a large scale, where many persons are employed, this would be a matter of considerable dif-# 13 mm. ficulty.

"Mifs had got a dozen mulberry plants last year, but not being sufficiently advanced to be of much use, the sent to for her general

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supply. To save trouble, and for experiment, fie had fhoots brought her, 8, 10, or 12 inches long; the leaves on the under part were stripped off, and the ends of the fhoots put into water—the water renewed daily. By this means the leaves on the upper parts of the fhoots were kept in perfect good order, and though sufficiently, or indeed perfectly frefh, could never be wet. The few worms fhe had, were supplied twice a day with these leaves,—some of them attained the size of 34 inches, others 3 inches, none below 24 inches. One had 420 eggs, another above 300, and none below 270, which fhows the leaves were in good condition.

on silk worms.

"The worm arrived at as large a size as Mr Andrew Wright's at Paisley, from whom the eggs came; and the average number expected from each female, that gentlemen writes, is, 250.

"Mr Millar writes in his dictionary, or elsewhere, that it hurts the mulberry lefs to take off the fhoots altogether, than to strip the fhoots of the leaves."

There can be no doubt but by this practice, if a bason were provided, with a proper apparatus for receiving the floots, and exposed to the sun or wind, under a roof, it might be possible to find dry leaves even during rainy weather, though at a considerable expence, where the quantity of worms is great. Perhaps the best way to have very fine leaves, and healthy plants of mulberries, is to have them cut close to the ground every winter, as we at present do with oziers for bafkets.

I am much obliged to miss Rhodes for the cocoons of the black worm the was so obliging as to send. Oct. 3. ment, fie long; the or renewthe upper od order, tly freih, nad, were -some of 3 inches, , another nows the

Mr Angs came ; h female,

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tice, if a ratus for or wind, ey leaves siderable is great. ves, and cut close esent do

to send:

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They are very large and beautiful. I fhould by no means despair of converting these to use, though the first experiments were not succefsful. From Dr Anderson's trials it appears, that, from accidental circumstances, the silk will be sometimes so weak as not to admit of being reeled off without the greatest difficulty; though, from the same species of worms, the silk is, 'n other circumstances, as strong as could be wifhed. It may also happen that the same solvent which is sufficient to difsolve the gluten of the silk produced by one kind of worm, will not be sufficient to act upon that of another. 'On this head a good deal of elucidation is 'necefsary, though this paper is too long to enter upon it at present,

on silk worms.

Though I fear it will not be such an easy matter to get sailors to attend to silk worms on a sea voyage, as mifs Rhodes seems to apprehend, no endeavours on my part shall be wanting. Sir William Jones writes to me, that though he has the greatest polsible desire to promote enterprises of this sort; yet. he is so much engaged in the active functions of his office, that he can spare much lefs time to such economical pursuits than he could wifh; and the little time he can spare is so totally devoted to his literary Asiatic researches, that he cannot flatter himself with the hope of being able to afford 'me all the afsistance he could with: but he has no doubt his friends, who are lefs taken up, will do it with alacrity. From Dr Anderson's exertions, which are entirely in the line of economics, every thing possible may be expected. If ever the worms can be brought hither by being alive for some part of the voyage, it must be, I should

rB4: Oct. 3. imagine, by the attention of some lady on her pafsage home, who might find it an agreeable kind of amusement to look after a few. Such a lady might thus, justly, acquire celebrity in future, by giving her name to that breed of silk worms; which owed their existence in Europe to her patriotic attention.

I beg leave to return my warmest acknowledgements to mifs Rhodes for this interesting communication; and the obliging terms in which it is conveyed. It will give me singular pleasure if I can be in any means the instrument of diffeminating the useful information, that her, talent for accurate investigation has enabled her to give on this branch of natural history.

ANECDOTE. OFTO

A woman went to find a monk, and said to him that the had stolen a packet which charged her, conscience. You must restore it, answered the monk. But, father, I am not suspected, and if I restore it, I am difhonoured. Well, answered the monk, bring the theft to me; I myself will make the restitution: The woman liked the expedient wonderfully, and in a thort while after the put into the hands of the monk : a basket, well wrapped in linen with an address on a card. The monk took the basket, and the woman retired with precipitation. The monk carried the deposit in triumph to the convent ; and says to his . brothers on entering, Here is my work. At the same . time they heard the cries of an infant. It was indeed . a new born child wrapped up in a backet, which the [. good woman had confided to the monk, as a packet which charged her conscience.

Oct. 3. n her pafle kind of ady might by giving . hich owed ttention. nowledge- , communiis convey-I can be in. the useful investigaof natural . J. A. : to him that ner conscinonk. But, restore it, k, bring the útion: The , and in a f the monk : ddrefs on a woman reied the desays to his .. It the same .

was indeed .

, which the as a packet

POETRY. SONNET. For the Bee. O say Maria! why is gentle love A stranger to thy mind? Which pity and esteem can move, Which can be just and kind. Is it because you fear to fhare The ills that love molest? The zealous doubt, and tender care, That racks my am'rous breast? Alas! by some degree of woe, We ev'ry blifs must gain; That heart can ne'er a transport know, ENON. That never felt a pain. T FOR THE NONSENSICAL CLUB. For the Bee. ALL whimsiaal people come hither, And choose a nonsensical strain; For who'd be a wit in hot weather, T' endanger the lofs of his brain. *Tis nonsense we sing, and we deal in, . And gen'rously deal it about ; . And if common sense chance fhould steal in, ; . We kick the precise rascal out. Whereof, forasmuch, notwithstending, Moreover, to wit, further n. e; Sure never were words as commanding, So sweetly adapted before. Thus free from restraint, in we rattle, Anslav'd by no precepts or rules, Whilst those who in to n prittle prattle, Are nothing but sensible fools. Should nonsense from human kind sever, What numbers must straight away run, The leau pick his teeth must for ever, The chatr'ring coquette be undone. VOL. XI. AA †

186	poetry. Oct.
	The bards would have little to write on,
	The lawyers have little to say i
	The critics would nought have to bite on,
	The Non Come not know how to pray.
	Besides, for a plague wit is sent t'ye,
	Its owners for ever are poors
	Whilst nonsense is vested with plenty,
	Whereof you may see now therefore.
	A A A A A A A A A A A A A A A A A A A
	GLEANINGS OF ANCIENT POETRY.
	AGAINST FOREIGN LUXURT.
	BY W. BROWN.
	AND now ye Britifh swaince, (whose harmlefs fheepe
	This all the world's beside 1 10V to Recper)
	Which spread on every plaine, and hilly would,
	Ficeces no lefse esteem'd than that of gold,
	For whose exchange one Indy jems of price,
	The other gives you of her choicest spice,
	And well the may; but we, unwise, the while,
	Leften the glory of our fruitful isle, Making those nations think we foolifh are,
	For baser drugs to vent our richer ware,
	Which (save the bringer i) never profit man,
	Except the sexten and physitian.
	And whether change of clymes, or what it be,
	That proves out marginers mortalities
	Such expert men are spent for such had fares
	As might have made us lords of what is theirs.
	Star atay at home, ve nobler spirits, and prise-
	Vour lives more high then such base trumperies;
	Forheate to feich; and they'le goe neers to sue;
5	And at your owne dores offer them to you i
	On Love their whole and plaines SO OVERECOWEE
	With povenous weeds, roots, gums, and seeds unknowie;
	That they would hire such weeders as you be
	To free their land from such fartilitie.
	Their spices hot, their nature best indures,
	But 'twill impayre and much distemper yours.
	What our owne soyle affords befits us best;
	And long and long, for ever may we rest
	Needlefse of help! and may this isle alone Furnifh all other lands, and this land none!
	Furnia all other lance, alle that hall hastona
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Oct. 3.

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NOTICES OF IMPROVEMENTS NOW GOING ON IN INDIA.

improvements in India.

Continued from p. 75.

The following communications respect chiefly the bread fruit tree.

From Dr James Anderson to Richard Molesworth, esq. DEAR SIR,

I AM favoured with your letter of the 2d of August last, and am sorry you have been disappointed in the teak and cinnamon trees which I sent you last year.

An alligator pear tree, however, having been sent me by colonei Kydd of Bengal, in a box of a new construction, in which I suffered it to remain three months in the fhade before it was set out in the open ground, where it still continues healthy; I have directed two such boxes to be made, in which two teak and two cinnamon trees fhall be planted; and as captain Gerrard has obligingly promised to take particular care of them, I have no doubt you will receive them both safe on the arrival of the Deptford.

If they are sent to the West Indies, they will soon yield seeds; my cimamon and bread fruit tree, are already in flower, and the teak gives ripe seeds in eight or ten years.

You will see by my correspondence last year, that we have constructed reels here, which answer very well, as the fkaines made on them are afterwards placed by the silk weaver on a reel made of five slender pieces of bamboo, with a thread stretched from the eight extremitics of four of the pieces, in the manner of the braces of a drum, and serve as the flies of this simple reel; the fifth piece of bamboo being the pivot or center. From this reel he winds the silk on bobbins with the

From this reel he winds the silk on bobbins with the utmost facility, and no silk can possibly work more freely; but when your model arrives, I shall pay every attention in my power to adopt the whole or any part of its construction, to the improvement of this business, as it.

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Oct. s.

is of much consequence to introduce the best mode in a country where the people are much influenced by custom.

improvements in India.

The attention you have paid to my request in the promise of a reel, induces me to hope that this country, having the thermometer always between seventy and an hundred degrees, may rival the greatest establishments in the culture of silk; in Bengal, I believe the heat is sometimes greater, and in China much lefs. Tau, dr.

Fort St George, Jan. 19. 1792.

From Nicol Mein, esq. to Dr James Anderson. DEAR SIR,

MR ANDREWS and I have this instant returned from a trip to Allitory, a village about four miles distant from this, where there is a garden belonging to the nabob, in which we have found eight or ten bread fruit trees, two of which are very stately, and have fruit upon them, which is about the size of my clenched fist, and externally has the appearance of a young jack.

The fruit grows from near the top of the branch, and comes out of a theath.

The branch, on being broken, exudes a viscid milky juice.

The leaf resembles a good deal a fig leaf; but is much longer and more sinuated.

By this tappall, I send you two of the leaves enclosed in a fheet of paper.

I have sent for a Mootchy, to make a drawing of a branch from the tree with the fruit upon it. From its appearance I imagine it may be propagated by cuttings, in the same manner, and as easily as the fig.

Mr Andrews savs he was informed that the trees were brought from the Travancore country : five or six of the trees have been much mutilated, and their branches cut away.

It exactly corresponds. in appearance, with the description and figure in Cook's voyage, where he found it at Otaheite or king George 111. island. I have brought with me some young fhoots, which I have ordered to be planted in my garden. The leaves I have sent you, are not above

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Anderson.

ned from a trip stant from this, abob, in which s, two of which which is about has the appear-

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a drawing of a t. From its apby cuttings, in

the trees were ve or six of the ir branches cut

ith the descriphe found it at ve brought with red to be plantu, are not above

improvements in India. 1791. half the length that some on the tree are; as the latter could not be so easily packed for the tappall-however, they will be fully sufficient for you to ascertain that it is the tree. I am, Oc. Tritchinopoly, Jan 20. 1792.

From the same to the same.

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DEAR SIR, I HAD the pleasure of sending you by the tappall, yester-day, two leaves of the bread fruit tree, of which I also

gave you some account in my letter. I now send you a drawing of a branch from the tree; and fhall, in a day or two, send you another drawing with the fruit upon it; which I would have done to day, but did not choose to take off a branch with the fruit, without having obtained permission of the nabob's son Hussein ul Mulk.

Mr Trotter, surgeon, acquaints me there are a great number of these trees that produce fruit, in the Coimbatere country, and at Coimbatore itself. We have now a prodigious, encrease of silk worms at Warriore, that are in a very healthy state, and produce a strong yellow silk, since the cefsation of the rains. I am, Oc. Tritchinopoly Jan. 21. 1792.

From Dr J. Anderson to Sir Joseph Banks, bart. DEAR SIR,

BELIEVING that it may be of useful consequence to the public, I have the pleasure to acquaint you, that the bread fruit tree has been found in several of the southern parts of the peninsula, as you will see by the two letters I have just received from Mr Mein, head surgeon at Tritchinopoly, of which I inclose copies, with the drawing which he transmitted me along with them.

Since the imprefsion of my last publication, which was made a few days ago, and of which I have sent you copies, both in the Phoenix and Deptford, I have received accounts of the success of the silk worms at Palamcotta and Masulipatam, as well as of the recovery of those that had been diseased by the late rains at Tritchinopoly. So that a breed of this insect is already established in an extent of six hun-

190 *intprovements in India.* Oct. 3. dred miles upon the coast, but it will rest with the company to render it productive.

The incursions of the enemy's horse, have prevented me from exploring the country, and therefore I hope you have received the white lac which I sent by captain Cunningham.

As you have no doubt heard of the succefs of our arms in Maifsore, I must acquaint you, that in our new conquest of Bangalore, the mercury in the thermometer is at 57 in the morning, and 71, or 72 at noon, at this season. I am, Gc.

Fort St. George, Jan. 26. 1792.

From Dr Anderson to Nicol Mein, esq. DEAR SIR,

Your letter, with the drawing of the bread fruit tree, did not arrive time enough for the packet, but I immediately sent a copy of both your letters, with the drawing which you sent inclosed, to Sir Joseph Banks, time enough to reach captain Gerrard before he got on board, thinking it of consequence to be known in England.

The slips you have taken will not grow unlefs they are shoots from the root, and that you have removed the root along with them; for neither the bread fruit, nor our common jack, which are both of the same genus, viz. artocarpus, can be propagated by this means, nor by the Chiness method, of potting, as it is called in England.

The jack, indeed, is readily propagated by seeds; but I do not understand that ever the artocarpus incisa, or bread fruit, has been raised in this way.

The only method of procuring a multiplication of the trees, is to lay the roots bare, by removing the earth round an old tree, and cutting through one or two roots, or as many as may be cut without injury to the trunk, and raising the upper extremity of the cut root above ground, where it fhould remain till it sends out a stem two or three feet in beight; for if the root is dug up at an earlier period, the young stem is so succulent and tender, it is very apt to decay.

Oct. 3. with the com-

e prevented me re I hope you y captain Cun-

cefs of our arms our new conermometer is at at this season.

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d fruit tree, did t I immediately drawing which time enough to oard, thinking it

unless they are moved the root it, nor our comenus, viz. artonor by the Chi-1 England.

by seeds ; but arpus incisa, or

plication of the ving the earth ie or two roots, y to the trunk, cut root above nds out a stem is dug up at an ent and tender,

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improvements in India. I have been so particular that you may communicate with the gentlemen in the Coimbatore country, and procure as many young trees as possible.

The reverend Mr John, and some philosophical gentlemen at Tranquebar, are the first Europeans who have cultivated this tree on the coast; and by their means, Mr Roxburgh, I believe, was supplied with some plants which he sent to England, which were said to have come originally from Ceylon ; but as Mr Andrews has traced it from Travancore, where Mr Alexander Anderson found it under the name of the Maldive jack, it is probably a native of the Indian, as well as Pacific Ocean ; although the uses to which it may be applied in the economy of human life, might still have remained unknown, but for these southern voyages.

Notwithstanding what I have said about its propagation, when the fruit is ripe, I could with you to examine it, and see if there is any thing like kernels or seeds, that you may likewise try if it can be raised from seeds. It thrives best on the same kind of soil as the jack, which is the red volcanic earth near the foot of the hills, and a higher level than to admit standing water in the monsoon, Fort St George, I am, bc. Jan. 29. 1792.

From Robert Andrews esq. to Dr James Anderson DEAR SIR,

MR MEIN has before written you on our notion of having discovered the bread fruit tree; he has sent you a leaf thereof, and this day sends you a drawing of a branch of the tree, with a representation of the fruit.

I now forward to you in a small box, a bud, which appears to fhoot out like Indian corn, and you will observe the young fruit inclosed therein. I remain, drc. Trucbinopoly, Jan. 23. 1792.

From Dr James Anderson to Robert Andrews, esq. DEAR SIR,

I AM just favoured with your letter, and the bud of the bread fruit tree, with the fruit, which appears singular, as nature has been more careful of this, than of most

to correspondents.

392. other trees, in defending every leaf, with two spathee, or sheaths, in the manner that the flowers of some trees, the palms particularly, are defended, or like the Indian corn you mention.

Mr Mein's letters, and the first drawing, were just time enough to go this morning in the Deptford, to Sir Joseph Banks ; the second drawing of the fruit must wait some future opportunity.

I rely on your care, as well as his, to multiply the plants of this very valuable tree, (of which, we have only three at Madras,) for which purpose, I have written him directions by this tappal, which he will hew you. I am, &c: Fort St. George. Jan 37. 3792. To be continued occasionally.

TO CORRESPONDENTS.

THE obliging communication by Varietas is received, and field be inserted with the first convenience. The ironical piece be mentions, if executed with de-licacy, will be highly asceptable. Sportive good humour is alwedys sure to

please. The Editor returns bett thanks to J. H. for Dis obliging communication, subich be will enderwoor to avail bimself of as soon as conveniency will per-mit. Will be glad to bear from this correspondent when convenient: The reflections by A. are just, and well founded; but the Editor withes to touch on that subject as seldom as possible at present, and bapes bits of high g tor-respondent will accept of this apology for deferring it till a more convenient season. The very humarous letter of Mechiospike is received, and fail be inserted with the first opportunity. The obliging communication by Iuvonio is come to band, and fail be inserted

with the first opportunity. The obliging communication by Juvenie is come to band, and foall be inserted suben an engraving can be made. It may be proper to defer it a little, till vue see vobat changes are produced by a little time. It will be obliging, if, with that wiew, Juvenie will be so kind as communicate what farther observations occur, with bis first convenience. The first convenience.

occur, suite bis press concentence. The floor criticisme by C. S. fall not 'se neglected. The floor of Elvins is received. D. 4 the Editor think bimself qualified for the taik floe aligns him, be flould with cleasure comply with her request. To oblige her; he will endeavour to find some sther person to align him in this respect.

Other notices deferred.

2 + 3 mar 10 - 5 The following errors remained uncorrected in a few copies of the last half fleet of the Number which immediately precedes this. Those, thurefore, who have got these copies, will please correct them with a pen, as the sense especially by the first error, is materially affected.
 Page 141, line 14, for eight read-eighty.
 143, line 5, for I read Is an early number.
 ib, line 9 from the bottom, for nearly read early. ERRATA.

Oct. 3. wo spathce, or me trees, the Indian corn

ng, were just ptford, to Sir ruit must wait

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ly number. read early:

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96:

THE BEE,

OR LITERARY WEEKLY INTELLIGENCER,

WEDNESDAY, OCTOBER 10 \$792.

GRAMMATICAL DISQUISITIONS. Continued from p. 130.

OF PECULIARITIES AFFECTING THE PRONOUN OF THE er * 1 THIRD PERSON ONLY.

GENDER*.

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10

Singular number.

ALL our grammarians remark, that, in English, the pronoun of the third person, in the singular number,

* I have often had, in the course of these lucubrations, occasion to mention the word gender, yet from several letters I have received, it appears that what I have said on that head has not been sufficiently understood. My views were chiefly directed towards the information of those who were mere Englife readers. I find that some who are acquainted with other languages are equally at a lofs to conceive clear notions on this head.

In all European languages, ancient and modern, the English alone excepted, the gender of nouns is a mere artificial arrangement, that has ecarcely any dependance upon nature. In these cases the knowledge uf the gender of nouns is a burden upon the memory only, in which judgement sannot be exerted ; of course, in these languages, the number of genders is merely arbitrary. In some languages three, in others two genders only have been adopted ; and as the adjectives in most of these languages, and the agticles, where these occur, are made to vary according to the gen-.... VOL. Xi.

admits of a three fold distinction, respecting gender, and no more, viz.

1st, Masculine, expressive of males.

2d, Feminine, expressive of females. And

3d, Neuter, applicable to inanimate objects, or to animals whose sex is not obvious or generally known, or not necessary to be specified. Here the division rests. And although from what has been already said on the subject of gender, it is plain that this divi-

der of the nouns to which they refer, it becomes a severe tafk to learners to recollect these. This is a source of many grammatical blunders in the common use of these languages. But if it be embarrafsing, even where only rows genders have been admitted, how much more would it have been so, had all the possible variations been adopted that a strict adherence to mature would have required 7 It has probably been from this circumstance that so few genders have been in general employed : and, where this practice is adopted, perhaps the fewer of them the better.

In the English language no variation of either adjectives or articles, respecting gender, are admitted; and it is only in the promouns that the gender of the noun, for which they are substituted, becomes apparent. This, language too perfects as the singular elegance of following nature precisely with regard to gender, as far as the number of genders we have adopted, will permit. If a person therefore, knows the nature of the object of which he speaks or writes, he must also know the gender of the pronoum he must employ. If it be a minel a nimal, the masculing gender of the pronoun only can be employed; if it be a femole, the feminine alone can be used; if the are of the animal bunknown, or if it be an inanimate obect, the nexter gender must necessarily be adupted.

This rule is general, and admits of no exception; unlefs where, with a poetical enthusiann, which the genius of our language readily admits, i nanimate objects are personified; and in this case the poet who has once afsigned sex to the object, must adhere to the same rule when he substitutes a pronoun for it.

In this respect then the English language is unequalicd. It adheres to nature; but it does not extend its powers as far as the bounds of nature alluws. The enquiry in the text is calculated to fhew how many distinctions in that respect nature would readily admit of. Oct. 10. ecting gender,

And

objects, or to erally known, e the division been already that this divi-

vere tafk to learners ical blunders in the ing, even where onwould it have been strict scherence to from this circumployed: and, where better.

crives or articles, reowouns that the gennes apparent. This, wing nature precisely are of the object of ander of the pronoua gender of the proimining alone can be' be an inanimate ob-

unless where, with age readily admits, poet who has once rule when he substi-

lled. It adheres to bounds of nature alhow many distinc" 1791. on personal pronouns. 195 sion is in complete; yet, perhaps, there is no language, ancient or modern, which is so chaste, or so nearly adheres to nature and common sense, in the use of gender, respecting pronouns, as the Englifh; so that those who use it, are, in this respect, freed from an infinite number of embarrafsments with which other languages in general are encumbered.

A very slight degree of attention, however, to the subject, will enable us to discover, that the divisions, for gender we have admitted, are by far too few especially in respect to the pronoun of the *third* person, for effecting in a perfect manner the purposes of language.

Without repeating what has been said respecting the want of a pronoun denoting castrated animals, such as eunuch, gelding, wedder-fheep, capon, &cc, I would here confine my observations chiefly to the neuter gender, which, in the English language, comprehends not only inanimate objects, which are all that should properly belong to it, but also animals that have no sex at all, those whose sex is not apparent, and others still in which, though the sex be known, it is not at all considered.

Many words are expressive of general classes of animals comprehending both sexes; such as friend, servant, neighbour, and so on, whose place cannot be supplied neither by the masculine nor the feminine pronoun as a substitute, far lefs the neuter. The indefinite gender * is here so much wanted, that the

• See page 123, for the distinction respecting gender that affect the pronoun of the third person, in common with those of the first and seond persons.

Oct. 10. on personal pronouns. 196 language becomes cramped beyond measure by this defect; and in every page instances occur, either of ambiguity, improprieties, and inelegancies because of this; or of circumlocutions, and forced turns of exprefsion, that are necessary to avoid it. The phrase " a true friend is one of the greatest blefsings in life," is natural, and the truth of the proposition is readily recognised. But should it be proposed to follow out the thought, by adding several particular instances of the blefsings it bestows, we feel an embarrassment. And we must either repeat the word friend, or substitute an improper pronoun in its stead, thus-" a true friend is one of the greatest blefsings in life : a true friend heightens all our joys : a true friend alleviates all our misfortunes, and soothes the mind to peace ;" or, " a true friend is one of the greatest blefsings in life ; be heightens all our joys ; be alleviates all our misfortunes, and soothes our mind to peace." But in this last case the proposition is not fairly rendered. The effect is confined to the male, which ought equally to include the female. The proposition which ought to have been general, is thus rendered partial only.

The pronoun indefinite is wanted also as the substitute of all such words as denote a whole genus of animals, without regard to age, sex, or condition. In a perfect language there would be at least three distinct words for each genus of animals : one to denote the whole, indefinitely, as *floep*; another to denote males only, as *ram*; and the third to denote the female, as *ewe*. When thus employed, the word *loep* would be supplied by the pronoun *indefinite*;

Oct. 10. sure by this ur, either of s because of turns of ex-The phrase blefsings in roposition is proposed to al particular feel an emat the word noun in its the greatest tens all our misfortunes, a true friend be heightens fortunes, and last case the effect is cono include the to have been

as the subole genus of condition. In ast three dis-: one to denother to deto denote the d, the word un *indefinite*; 1792. on personal pronouns. 197 ram by the masculine, and ewe by the feminine pronoun. In this particular case we have another variation of the noun respecting gender, viz. wedder for a castrated male, but no particular pronoun forit.

It is true indeed, that few of our nouns admit of this triple distinction of gender; though, as we have often occasion to speak of a whole genus, we are on these occasions obliged to make use of such words as we have; forcing them from their particular meaning, to adopt one that is more general; as thus:

" The proper business of mankind is MAN." Pope.

In which the word MAN, does not denote the male, as opposed to the *female*, but the whole genus. And the same thing is done with regard to the word HORSE, and many others, that are often forced to denote the whole genus instead of the male only, which is their proper meaning. On all these occasions, the ambiguity arising from the want of a proper term, expressive of the genus only, is greatly augmented by the want of the pronoun indefinite also. This pronoun is therefore very much wanted *.

Plural number.

But though the pronoun of the third person be somewhat defective as to variations in the singular number, it is, in the English langauge, in this respect, greatly more complete than the plural, which admits of only the single word they, for all genders, instead of the three that are used in the singular.

• I find by a late publication, that in Glaces er fhire, there is a provincial indefinite pronoun not ad pted elsuwhere; it is the word qu i on weall, means alike he will, the will, or it will, (Marshall's survey of Glocesterfhire.)

198 en personal pronouns. Oct. To.-This deficiency will appear the more extraordinary when we know that a much greater number of variations ought naturally to be admitted in the plural than in the singular number. Some languages we know do admit a triple distinction in the plural, as. well as the singular; but these are still by far too .w. The following are all obvious distinctions, that might plainly take place in reference to gender, with respect to the pronoum of the third person, plural number. Cender,

	fal number.	Gender.
	1st, To denote male animals alone, which	Masculine.
	might constitute the	Feminine.
	2d, Female animals alone,	
	J Inamimate objects 2006	Neuter.
	4tb, Animate objects which either express general classes; or a whole genus, or	Indefinite.
	where it is not necessary to specify sex.	
	at all,	Imperfect, or
	st all, 5tb, Animals known to be castrated, and meant to be distinguished as such,	
	6tb, Males and females, known to be such,	Mairimonial.
	wh Males only, part perfect, and part cas-	Masculine
	trated, known and meant to be distin- tinguished, but not separated,	Imperfect:
	tinguinieu, but not topenter,	Fem.imperfect:
	Sth, Females and castrata,	Mixt imperfect
	oth, Males, females, and castrata,	Masc. mixt.
	yoth, Males and inanimates conjoined,	Fem. mixt.
	12th, Males, females, and manimates con-	United.
	icined 4	3
1.4	131b, Males, females, or inanimates, either	
	separated or conjoined, where no dis-	Thingercally
	separated of conjoined, where the ad-	Sindefinite
	any way. I fills is piccise.	
	ly the power of our present pronoun	
		, J
	they.	
		· ·
	'	

Oct. 10traordinary mber of van the plural inguages we he plural, as 11 by far too distinctions, te to gender, person, plu-

Gender, Masculine. Feminine. Neuter.

Indefinite.

Imperfect, or Soprana. Matrimonial.

Masculine Imperfect:

Fem.imperfect: Mixt imperfect: Masc. mixt. Fem. mixt.

United.

Universally indefinite. 1792.

199

Some lefser distinctions are, omitted to avoid the appearance of unnecefsary refinement. The above are all obvious; and if a language fhould be found, the gender of whose nouns was only denoted by the pronouns, and in which a distinct and separate word was to be found for each of these variations,—and, were writers always at liberty either to employ the definite or the indefinite genders, as suited the purpose they had particularly in view at the time, this language would pofsefs a variety of phraseology, and a clear, precise, nervous perspicuity of exprefsion with which we are as yet entirely unacquainted. An unobserved case.

on personal pronoans.

Under the head of pronouns of the first and second. persons, we had occasion to take notice of one important variation of the pronouns that had escaped the notice of all our grammarians. Another, that is of equal importance, and that has in like manner been hitherto entirely unobserved, occurs under the present head.

To avoid the appearance of egotism, and in some measure to vary the stile and form of narrative, an author often finds it would be convenient to write in the *third* person rather than the *first*, could it be done with the requisite clearnefs and perspicuity. But if the writer, in these circumstances, fhould chance to mention another person of the same sex with him or herself, (here I want the pronoun *indefinite*.) the frequent repetition of the same pronoun, as applied to the writer and to the party mentioned, occasions a perplexity and indistinctnefs, that can be in no other way avoided, but by repeating the noun itself, in place

on personal pronouns. Oct. 10. 200 of the pronoun. This confusion, however, might be entirely avoided, and the writer left in perfect freedom in this respect, if, instead of one pronoun only, for each of the genders, we had two or more. One of these words for each gender being invariably applied to denote the speaker only, another word to be as invariably appropriated to denote the party addressed, and a third or a fourth to be in the same manner appropriated to stand in place of the person'second or third mentioned, in case that fhould ever occur. To exemplify at once the inconvenience here complained of, and the great facility with which it could be obviated, I shall beg leave to produce an imaginary case.

The following card will sufficiently prove the want of the variation here complained of with respect to the Englifh language: and all other languages I know are equally deficient as to this particular.

"Mr A, presents his compliments to Mr B, will be glad to have the pleasure of his company to dinner, when be hopes be will be entertained by the singing of Signiora Martini, as be knows be is pafsionately fond of music; and it will always give bim a very sensible pleasure to contribute to bis amusement."

This card, which could hardly be intelligible in its present form, on account of the frequent repetition of the sauve pronoun, as applied to different persons, would have been perfectly intelligible had we a different pronoun for the party addrefsing, and the party addrefsed. This we can easily prove by substituting a lady instead of a gentleman addrefsed ; as Oct. 10. er, might be porfect freeonoun only, tore. One of ably applied yord to be as arty addrefse same mante person'seould ever ocrenience here vith which it produce an

ove the want th respect to languages I ticular.

o Mr B, will npany to dintained by the knows be is will always contribute to

intelligible in equent repeti-different per-igible had we *fring*, and the rove by subaddrefsed ; 2s 2792. on personal pronouns. 201 our pronoun for the masculine gender is a different word from that for the feminine : Thus,

"Mr A presents his compliments to Mrs B, "will be glad to have the pleasure of *ber* company "to differ, when *be* hopes *fbe* will be entertained by "the singing of Signora Martini, as *be* knows *fbe* is "particular fond of music; and it will always give *bim* a very sensible pleasure to contribute to "*ber* amusement."

Here no sort of ambiguity occurs; and it is plain that as little would be perceived in the former case, had we a different word for each of the parties when of the same gender.

But as it frequently happens that we have occasion to mention, not one person only, but several others, and to repeat circumstances relating to each, the confusion that in all such cases arises, in the present imperfect state of our language, when this mode of writing is adopted, is such as to render it quite unintelligible. Nor could this perplexity be removed by adopting one variation only for each gender, but several others. This I thall endeavour to exemplify in the following imaginary card.

" John presents his compliments to James, begs he will James

" be so kind as call upon George *, and bring him with George

• In this example the nouns John, Jimes, and Geirge, came in order y_1, y_2, y_3 . To mark the order, thus figures are placed above the propoun denoting them respectively, and below the line the name denoted by the pronouns written. The examples, it is hoped, will thus be intelligible. **TOL:** Xi. C.C. †

202		on pers	onal pronoun	s.,	Oct. 10.
s " him James		w to di	ner, where I	he will	expect him James
" with	some in	npat'ence	, as he will John	be alwa	iys proud to
" fhow	3 v him eve George	ery civili	ty in his por John's	wer, not	only on his George's
" own	account	, from the	e personal re	gard he Job	bears him, George
" but	also on	account	of his father George's	, who v	vas his mnch John's
" resj	ected fri	end.			
	1		re him to con George	ne with	an intention
" to	spend the	evening	with him, it John	will giv	e him an ad. John
" dit	ional plea	sure ; and	l in that case	he will	endeavour to
" ha	ve some c	f his old George's	friends to me	t with h	3 im, whom he George George
« wi	ll probab	ly be gla	to sec.	3 · ·	
51	ould suc	h a card	as this be of our lang	sent to	any person, the adjuncts
in th	e preser	low the	line being	omitte	d, it would
he it	atle lan	ohed at.	as a most	absurd	composition
that	could r	ot be et	sily decyph	ered.	It, however
		particula	r pronoun a	ppropri	ated to each
~ F + h	e norson	s menti	oned in the	card, th	ie ambiguit
	Li ha to	tally re	moved, and	it wou	la de unaer
stoo	d with a	s great	facility as	any oth	ter composi
	in our 1	anguade	l'o illustr	ate this	proposition pronoun c

	Oct.	10.
		2 .
ill	expect	him James'
	•	yames

ways proud to

not only on his George's he bears him, fobn George o was his much Jobn's

th an intention

give him an ad. Jobn

ill endeavour to

h him, whom he George George

to any person, , the adjuncts ted, it would d composition, If, however, oriated to each the ambiguity ould be underother composiis proposition, the ptonoun of 1792. on the personal pronouns. ¹²⁰³ the third person, masculine gender, singular number, admitted of three distinct variations, viz. HE, with its present derivatives, for the first person mentioned; HEI, with its derivatives, for the second person mentioned; and HO, with its derivatives, for the third. These pronouns, with their derivatives, formed in the same way with our present pronouns, would stand thus,

	inst in order, SHE pronounced H1's H1 M	adinoider, HEE Shel hEI's HEIM	C HO	
Which in this case would stand for		-	George and George's	

By appropriating these words to their proper uses, the foregoing card would run thus,

" John presents his compliments to James, begs that

" wer will be so kind as to call upon George, and bring Jimus

"HOM with HEIM, to-morrow to dinner, when HE will ex-George James Juhn,

" pect how with some impatience, as RE will be always George John

" proud to fhow ном; every civility in His power, not only George Juin

" on Ho's own account, from the personal regard up bears George's John

" Hom, but also on account of Ho's father, who was Hi's George Georges John's

" If HEI will also desire HOM to come with an intent James George

.on

the effects of water on machinery. Oct. 1.
to spend the evening with HIM it will give HIM an ad-John
ditional pleasure; and in that case HZ will endeavour to John
have some of Ho's old friends to meet with HOM, whom George's

" Ho will probably be glad to see." George

. . .

• .

The above card appears to read a little uncouthly to us at present, because the words are new to us; but there cannot be a doubt, that if these, or other words of the same import, were in use in language, their sounds would become familiar to the ear, and their meaning would be distinctly recognised at the first, as the words be and ser are at present, or any other words in the language, and wor d be the source of much perspicuity and elegance.

To be continued.

AN ESSAY ON WATER,

CONSIDERED AS A MOVING POWER ACTING UPON MACHINERY.

In this efsay it is not intended to engage in deep mathematical discufsions, but merely to give some general notions concerning the most effectual way of applying water to machinery, in different circumstances, that as little as pofsible of its effect, as a moving power, may be lost;—an investigation peculiarly proper at the present time, when machinery is beginning to be universally employed in manufactures; especially as it will be found that a great part of the effect of that useful element, as a moving gize HIM an ad-

will endeavour to,

with Hom, whom George

little uncouthly are new to us; these, or other use in language, to the ear, and recognised at the present, or any d be the source

ER, B UPON MACHINERY.

engage in deep ely to give some t effectual way of different circumof its effect, as a investigation pewhen machinery oyed in manufacund that a great nent, us a moving 1792e the effects of water on machinery. 205. power, is now lost, from an inattention to obvious principles in the construction of machinery.

There are two cases which may be considered as the extremes in the application of water to turn machiner;, viz. where the height of the fall that can be commanded, is very great; or where the water moves nearly on a level bottom, without admitting of a caseade or fall. If the means of applying water to machinery, in these two circumstances, so as to derive the greatest benefit possible from its power, be distinctly specified, it will be very easy to apply the principles that will thus be developed, to any intermediate cases that may occur.

Water, as a moving power, may be made to act spon machinery, either by its dead weight, or by its impetus.

When we speak of water acting by its *dead weight* upon a wheel, it is meant to say, that it is so applied as to produce an effect similar to that of a man. pulling a rope wound round the circumference of that wheel, moveable upon its center; or that of any other kind of weight suspended from the same rope.

When it acts by its *impetus*, we mean the same thing as if a stone were thrown, so as to strike, with force, a board fixed to the edge of a wheel, movcable upon its center. Such a stroke would make the board move; and by a repetition of these strokes, a continued rotatory motion may be produced.

Most of the water mills in Britain are so constructed as that water acts upon them in both these ways united; but wherever the fall is considerable,

206 the effects of water on machinery. Oct. 10. the general notion seems to prevail, that the greatest reliance ought to be placed on its power when acting by its impetus, and the effects that might result from its power as a dead weight are disregarded.

By an accurate set of experiments, conducted with great care by Mr Smeaton, the ingenious mechanician, and recorded in the Philosophical Transactions many years ago, this notion has been proved to be ill founded; for he has demonstrated in the most satisfactory manner, that, in all cases, the same quantity of water will produce a much greater effect with whe same height of fall, if made to act by its dead weight than by its impetus.

The difference of power when applied in these two ways, is always great; but in some cases it is nearly infinite. Where the stream of water, for example, is small, and the height very great, the power of that water, if properly applied, by its dead weight, may be sufficient to overcome a greater resistance than any machinery could bear; while, by its impetus, it could be nothing; the whole body of water in that way being broken by the air, and difsipated.

In a wheel constructed upon the common principles adopted in, this country, with float boards, or A A's, fixed on the circumference of the wheel, a great part of the *impetus* is lost by the motion of the wheel; so that, on this account, the slower the wheel is made to move, the greater will the effect of the water be upon it.

A great part of the power of the water acting hy its dead weight is, in this case also, lost by the water y. Oct. 10. at the greatest r when acting ht result from. ded.

onducted with ous mechani-Transactions proved to be the most sate same quanter effect with t by its dead

d in these two ses it is nearly , for example, the power of *dead weight*, ater resistance , by its *impe*dy of water in difsipated. sommon prinloat boards, or the wheel, a motion of the he slower the ll the effect of

t by the water

1392. the effects of water on machinery. 207 being thrown from the A A's, in consequence of their inclined position, where lower than the axle, upon the edges of the trough in which the wheel moves : for as there must always be a vacant space between the edge of the A A's and that trough, as much water as fills that space, must, in all cases, escape, without acting upon the wheel at all by its dead weight.

The quantity of water that thus i tirely lost will always be in proportion to the distance between the trough and the wheel. It is therefore of the utmost consequence, if we wish to lose little power, that the the trough be formed with the nicest accuracy, and be made to apply as close to the wheel as can be done, so as not to touch it.

The lofs that is thus incurred will be greatest, where the velocity of the water is greatest, for a reason that fhall be soon explained; therefore that lofs will be always in proportion to the height of the fall, other circumstances being equal.

An opinion at present very ge serally prevails in this country, that a great deal of power is in all cases gained by encreasing the breadth (I do not mean the diameter) of the wheel. In other words, by making the A A's of greater length than formerly. This opinion, however, is extremely erroncous; for where ever the fall is considerable, a dimunition of power must be the result of this alteration; and where the wheel is constructed with plain A A's, this lofs, where the fall is great, may be prodigions.

To explain this circumstance, it is only necessary to remark, that the depth of a stream which transmits the same quantity of water in a given time, its breadth continuing the same, diminishes in propor-

208 the effects of water on machinery. Oct. 10; tion to the velocity with which the water moves; but when water is made to descend on an inclined plain, towards a mill wheel, its velocity encreases every inch it moves forward, so as to be much greater at the bottom of the spout, where it reaches the wheel, than at the top of it; and consequently the depth of the fheet of water is much lefs where it reaches the wheel than it was at the top of the spout.

This being understood, let us now suppose, that in a trough of one foot diameter, and where the A A's are, by consequence, of the same length, such a stream can be commanded as to fill the trough at the top of the spout, so as to be on an average six inches deep; on a very moderate fall, that fheet of water where it reaches the wheel would not be four inches, [if tolerably great it would not be two inches.] Now if we suppose the interval between the A A's and the trough to be no more than half an inch, it would follow, that one eighth part of the *dead weight* of the water would be lost. If it were one inch, which is no uncommon case, the lofs would amount to one fourth part of it.

If, with a view to improve this machinery, the trough fhould be widened, and the A A's lengthened to two feet, the consequences would plainly be these : the depth of the water at the top of the spout would now only be three inches instead of six, and of course the thicknefs of the fheet, where it reaches the wheel, would be only two inches, instead of four ; but as there must still be half an inch of water lost, as before, it follows that one fourth part of the dead weight y. Oct. 10; ater moves; on an inclined sity encreases e much greatt reaches the sequently the lefs where it ne top of the

suppose, that ind where the length, such a trough at the age six inches heet of water inches.] Now he A A's and inch, it would *I weight* of the inch, which is mount to one

A's lengthened ainly be these : is spout would is, and of course thes the wheel, if four; but as ter lost, as be, the dead weight

the effects of water on machinery. 1792. 200 of the water must now be lost instead of one eighth. Here then the loss is precisely double what it was before, without any advantage gained to counter-balance that ;--- augment that breadth to four feet, you once more double that absolute lofs, (the proportional loss is much greater,) and so on, the more you encrease the breadth of your wheel, in these circumstances, the greater must the lois of power be; so that, instead of an improvement, this innovation is in fact a very considerable deterioration! Indeed it would be easy to flow that in many cases the whole of the power of the water, as a dead weight, is thus entirely lost, so that it can act merely by its impetus.

Observe, what is here said respects wheels constructed with A A's; those with buckets, or receivers of any sort, will be considered below. But in most of these, as far at least as respects that part of the wheel below the axis, the case will not be found to differ much from what is here stated.

These observations may be sufficient to flow that 2 in all cases where a considerable fall of water, can be commanded, there must ever be a great waste of that water as a moving power, when it is applied to wheels constructed with float boards or A A's, and to point out in what manner that waste may be augmented or diminished. In that mode of construction it is chiefly by its impetus that water acts upon machinery. It remains that we now consider the various modes of applying water to machinery so as to make it act by its dead weight; a mode of application that ought in every case to be adopted where the fall is, considerable. As this branch of the subject has ne-VOL. XL. DD t

are copy of a singular letter. Oct. 10. ver attracted the attention of mechanics so much as it deserves, and seems to be but little understood by the public at large, it will be of use to advert to it with care, which shall be done in a subsequent paper. To be continued.

COPY OF A SINGULAR LETTER FROM LIEUTENANT CO-LONEL CHARLES SKENE, GOVERNOR OF EDINBURGH CASTLE, TO THE EARL OF TWEEDDALE.

Edinburgh castle, Oct. 29. 1667. My LORD, I RECEIVED a letter this morning from my testor John Kirkwood, wherein he tells me, your lordship was pleased to command him to let me know that you had seen a letter directed to the archbishop of Canterbury, which gives him an account of a rebellion that is to be in Scotland, and that the commander of the castle of Edinburgh was to declare himself for the rebels .-- I fhall not say much, but by G-d's wounds I shall be as honest and faithful in my trust as that bifhop, or any other gownsman; and let him and them go to the the devil and bifhop them : nor fhall I ever counterfeit any letter that may be to my neighbour's hurt to keep myself great; for I am afraid it is their guilty consciences invents these and the like stories; and I hope whatever may be writ to them of me, the king my master will have charity for me ; for G-d damh me that day I ever betray my trust to them or any else. 'O ! my lord, forgive me; for I am almost mad; and in such a confusion that I know not what I am writing; but I am, and fhall be, in spite of Toland, my lord, your lordship's most obedient servant, CHARLES SKENE. (Signed)

ŝ,

Oct. 10. s so much as understood by o advert to it sequent paper.

EUTENANT CO-OF EDINBURGH LE.

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Oct. 29. 1667. my testor John dhip was pleathat you had of Canterbuebellion that is mander of the self for the re-_d's wounds I as that bifhop, them go to the ever counterbour's hurt to is their guilty stories; and I me, the king or G-d damh them or any almost mad; ot what I 'am te of Toland, servant, - 3 SKENE.

POETRY. LOVE AND REPUTATION A FABLE. ONCE on the way, as fable tells, Love, Reputation greeted; The first, like modern friends, seem'd frank, The other, thy, retreated. "Sic Gravity," said sprightly Love, "Shall I my schenies unravel? "Companions fair | yet once for whim, "Together let us travel. " Nor 'sithis league, with empty views, " On either side invited; " Pert Slander, fhall in vain efsay, "On you, or me, united." Agreed !--away flies enger Love, His wings outstripp's the wind, Whilst Reputation, slow of foot, Come lagging far behind. Leve stop'd, impatient at his stay, And cried, " if thus I tarry, " How many matches thall I spoil?" " How many prudes miscarry ? " How mony vot'ries thall I luse? " Yet not my faith to sully, " I'll teach thee, my dear friend, though new,. ** To mark my progrefs duly. When towns I seek, a wing I'll plume,
Yoar guide to trace me thither,
At masquerades, afsemblies, balls,
You ne'er thail mifs a feather." " Soft I soft !' said Reputation, " child, To these I rarely come;
So master Love, sgain you're free,
In random f ght to toam. Yet c'er we part, weigh well my words,
With strict attention mind me;
Those whom I meet, and me direct,
Again fhall never find mee.

212 political progress of Britain. Oct. 10. REVIEW. The political progress of Britain; or an impartial ac-

COUNT OF THE PRINCIPAL ABUSES IN THE COVERNMENT OF THIS COUNTRY, FROM THE REVOLUTION IN 1688. THE WHOLE TENDING TO PROVE THE RUINOUS CONSEQUENCES OF THE POPULAR SYSTEM OF WAR AND CONQUEST, PART FIRST. Edinburgh, Robertson and Berry, 1792. 15.

The greatest part of this pamphlet as already appeared in the Bee, under the form of letters from *Timothy Thunderproof*, so that our readers are already in some measure able to judge of it. The author, in a flort introduction, thus justly characterises the performance himself.

" This pamphlet consist not of fluent declamation, but of curious, authenticated, and important facts, with a few flort observations interspersed, which seemed necessary to explain them. The reader will meet with no mournful periods to the memory of annual or triennial parliaments; for while the members are men, such as their predecessors have almost always been, it is but of small concern whether they hold their places for life, or but for a single day. Some of our projectors are of opinion, that to fhorten the duration of parliament would be an ample remedy for all our grievances. The advantages of a popular election have likewise been much extolled. Yet an acquaintance with Thucydides, or Plutarch, or Guicciardini, or Machiavel, may tend to calm the raptures of a republican apostle. The plan of universal suffrages has been loudly recommended by the duke of Richmond; and, on the 16th of May 1782, that nobleman, seconded by Mr Horne Tooke, and Mr Pitt, was sitting in a tavern, composing advertisements of reformation for the newspapers. MUTANTUR

Oct. 10.

IMPARTIAL AC-COVERNMENT OF IN 1688. THE CONSEQUENCES OF ST, PART FIRST. J.

is already aprs from Timoilready in some in a fhort introrformance him-

eclamation, but icts, with a few ied necessary to no monrnful peal parliaments; eir predecessors concern whefor a single day. to fhorten the remedy for all ar election have uaintance with or Machiavel, ublican apostle. loudly recomon the 16th of r Horne Tooke, posing advertise-IS. MUTANTUR

1792. political progrefs of Britain. 213. TEMPORA! But had this plan been adopted, it is politible that we fhould, at this day, have looked back with regret on the humiliating, yet tranquil despotism of a Scotch, or a Cornifh borough.

"The style of this work is concise and plain; and it is hoped that it will be found sufficiently respectful to all parties. The question to be decided is, are we to proceed with the war system? Are we, in the progrefs of the nineteenth century, to embrace five thousand frefh taxes,—to squander a second five hundred millions sterling,—and to extirpate twenty millions of people?"

- The progress of human reason is but slow; and when any one begins to combat prejudices that have long been cherished by a whole nation, many individuals are displeased to find, that the doctrines they have been accustomed from their infancy to think infallible, are treated with little respect. In this way, some readers will no doubt be displeased at meeting with the disagreeable truths which this pamphlet contains. Thus it was that many a well disposed Christian was shocked at the blasphemous heresies, as they were then called, of Wickliffe and of Luther : we now view them in another light ... Thus it also was, that ten years ago, the first pamphlets that were written to prove that Britain would be a gainer by the loss of her American colonies, were considered as absurd and ridiculous paradoxes, though no person now disputes the unerring truth of these conclusions; and thus it ever will be with the first efforts of reason towards eradicating prejudices, of every sort ...

No national prejudice is of longer standing, or has had a more extensive influence in Europe, than the war system, or requires to be combated with greater azdour; because none has been productive of so much national mischief, or individual distrefs. National glory, the balance of power,

political progress of Britain. Oct: 10: 214 and the extension of trade, are the principal pleas that have ever been urged for going to war; pleas that, if they are admitted, will be sufficient to perpetuate wars till there be scarcely an individual of the human race existing on the globe. Can national glory ever be augmented by acts of rapine, bloodshed, and injustice ? yet it is actions of this kind which have been cried up, as constituting national glory, from the days of Cyrus to those of George III. The balance of power! what is it but a bubble to amuse the multitude,-a pretext for exalting the favourite nation of the day, which we must pull down the next? Within this century Britain has expended her blood and treasure succefsively to exalt and to abase almost every power in Europe ; and so it ever must be, while this Quixote doctrine prevaile. Heaven alone can set bounds to the power of empires, which cannot be overcome ; and nothing else ever will do it effectually, till mankind shall be endowed with a greater degree of foreknowledge, honesty, and steadines, than they ever yet have possesed. As to wars for the extension of trade, of all the absurdities that ever marked. the ravings of the human mind, that is doubtless the most remarkable :-- it amounts to this,-- to make other nations purchase your goods to a greater extent you must enhance. the price of these goods ;- to make a customer buy them in greater quantities, you must render those purchasers poorer than they otherwise would have been. The public are indeed amused by a grand display of treaties. and restraints, by which this trade is to be forced, by inniquitous stipulations, to run in their favours : as if every man of common sense did not know, that it would be equally wise to attempt to make the sea flow upwards on the side of a hill, as to continue in any nation a brifk demand for goods that are dearer or worse in quality than those of neighbouring countries.

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215 War can serve no other good purpose therefore but to augment the power of the minister, by furnishing individuals with the means of suddenly enriching themselves by plunder, at the expence of the community at large. It is the hope of this plunder that makes so many voices join in the favourite cry of national glory,-balance of power,-and benefits of trade. It is the hopes of profiting by their aid, in gulling the people at large, that the minister so cordially ever leads the van in this general cry. Shall man ever continue a child, and sllow himself to be led to destruction in leading strings ?

The writer of the pamphlet before us, has here lent his aid to throw into disrepute the system of war. There still remains a wide field for discussion with regard to other doctrines, that have been cherished for ages from the same motives, to which he has not extended his views. These, it is hoped, will come successively to be examined, by persons who have the national good at heart ; and who have no connection with party; no prejudice at individual men; no hopes of being benefitted by the plunder either of enemies or of friends; " , when once plunder becomes the object, the experience of ages clearly proves, that men have ever showed themselves as eager to obtain it from their neighbours as from strangers,-from their friends as from their foes.

Many of the readers of the Bee have imagined that Mr Thunderproof is inimical to the present minister; but this opinion does not appear to be well founded. One of the national prejudices that ever has, and probably ever will prevail, is, that the present minister, whoever he be, ought. to be deemed in some measure sacred; and that every person who does not speak and write in that manner, must be ranked among those who have set themselves in opposition to him, and who, right or wrong, will oppose every

political progress of Britain. Oct. 13. 216 measure that he shall adopt. There can be no doubt that every minister will endeavour to cherifh this opinion, because it tends to screen his conduct for the present from an impartial investigation. It much imports the welfare of the state that this prejudice should be removed; and the writer deserves well of the community for having endeavoured to weaken it. Of any individual we with not to speak ; but there can be no doubt but every minister, ex offcio, lies under very strong temptations to impose upon the people, and to lead the nation into undertakings that have a necessary tendency to diminish its general prosperity: His conduct therefore should be at all times nicely watched. And though he should be cordially supported, wherever it is necessary to give the executive department its fullest energy; yet in every attempt to extend his power beyond proper limits, in bis legislative capacity, he fhould be checked with a becoming firmnels. The distinction here made has been hitherto but too little attended to by political writers. A circumstance, which, for not having been at all adverted to in a neighbouring nation, has produced a scene of confusion, and multiplied atrocities, that makes the human mind fludder with horror. From not attending to this circumstance, also, many writings that perhaps were as well intended as any that ever ifsued from the prefs, may become extremely persizious; and numbers of men, whose hearts glow with philanthropy, feel themselves at this moment disposed to lend their aid in forwarding measures, which, if adopted, would prove in the highest degree destructive to the community and ruinous to individuals. A little time, and a more perfect knowledge of the elsentipls that constitute the true principles of a rational freestora in government, will probably tend to moderate these • • • • • • • • • iv cautious wanderings. . A 1. 753 .

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Oct. 10. be no doubt that is opinion, bethe present from orts the welfare emoved; and the or having endea-1 we with not to y minister, ex offimpose upon the akings that have ieral prosperity. s nicely watched. ported, wherever partment its fulstend his power pacity, he should The distinction e attended to by , for not having nation, has prod atrocities, that or.. From not attings that perhaps ed from the prefs, numbers of men, el themselves at forwarding meaie highest degree is to individuals. dge of the elsenf a rational freeo moderate these 14 - 1 K

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political progress of Britain. 217 A circumstance is mentioned in the above quotation that deserves to be attended to at present. The most perfect security of person and property constitutes the very elsence of civil liberty; and could that be insured by an universal liberty of suffrage for representatives, every man ought to promote such a measure ; but if experience flows that this circumstance alone has never been sufficient to insure any thing like that security, it must be deemed a matter of very little moment at least. If it has proved destructive, it ought to be avoided. It would be well if gentlemen who are zealous in this cause, would consult the authorities there quoted, and satisfy themselves upon this head, before they place their whole reliance on a circumstance, which may, perhaps, instead of a prop on which they can safely lean, turn out to be a spear that shall pierce them to the heart.

The following curious fact respecting this circumstance deserves to be noted. The whole male inhabitants of the canton of Bale in Switzerland, on the first institution of that republic, had a right of voting for their rulers : but experience soon taught them, that this universal privilege of voting, was by no means sufficient to guard against the influence of wealth and popular manners. Still. more effectually to do this, the mode of election was varied. Every man continued to retain the right of suffrage, as before ; but instead of one, every vote included three persons, one of which was to be chosen by lot. Still, however, influence was found to have great sway in the elections, and it was deemed necessary, on this account, once more to change it. Instead of three, every vote was made to include six persons, one of whom only can be chosen, and that must be done by lot. In this state things remain at present. It requires not much foresight to see, that for the same reason as formerly, they will find it necef-VOL. Xi. R.R. . . .

218 political progrefs of Britain. Oct. 10. sary once more to alter their mode of election; for the influence of wealth and popular manners, can never be fully excluded, until the election shall be made entirely by lot. I cannot help recommending this proposition to the attentive consideration of those who with to preserve the public tranquillity, and at the same time to exclude influence entirely from the elections in Britain. Were the qualifications necessary for candidates properly defined, and the law in that respect duly inforced *, I can see no objec-

• If, for example, we wished totally to exclude every kind of influence at elections, I should be giad to know what objections could be made to the following regulations, wiz. let a law be made which ordains,

3. That no person can be elected till he has attained the age of 25 years complete. And,

2. That no person who has ever lived for ten years at a time out of Britain, or at least out of Europe, can ever be eligible. And

 3. Who has had his principal residence in the county where he becomes a can il date, for three years at least, preceding the day of election. And,
 4. Who possesses in his own right in landed property, the value of three hundred pounds of real rents, at least, free of deductions, or enjoys an income, if io businels, at least of five hundred pounds a-year.

All these facts to be ascertained by a jury of honest men in the vicinize, who shall take cogn's unce of them at the assizes immediately preceding the election, and whose verdict must be produced to the returning officer before the candidate can be put upon the ballot.

Thus every scrutiny and expensive investigation into the legal: y of claiments would be avoided, and the necefsity of delays precluded.

Let as many cancidates, thus qualified, as preased, come forward at the time of election. Let one who had been a candidate at some former prried, but not at present, be chosen from among those present by let, as the seturning officer. Let a number of small rods, of unequal lengths, but in every other respect, the same be provided, in number the same as that of the candidates is and another equal number of rods, having the name of one of the candidates written upon each. Let all the rods of one sort be fhaken and mixed carlefsly together before the meeting, and then so placed that one of the ends may project a little beyond a cover, and all ranged equal, the writing on the one set being entirely concealed. Let a maw then be provided, who, by an inquest before a jury, fhall have been previ-

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ain. Oct. 10. lection; for the incan never be fully ade entirely by lot. osition to the atteno preserve the pubexclude influence Were the qualifily defined, and the can see no objec-

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tion into the legal .y of delays precluded. ed, come forward at the idate at some former prhose present by lot, as the

of unequal lengths, but in mber the same as that of , having th . name of one rods of one sort be fhaeting, and then so placed cover, and all ranged concealed. Let a man y, thall have been previ-

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political progress of Britain. 219 tion to this mode of election but one, viz. that it would but too perfectly effect the purpose proposed. Such a regulation would set the court and the opposition alike

ously found to be perfectly blind. . Let this man draw, first a blank rod from one side, the length of which shall be ascertained by measuring it on a rod, within view of the meeting, and the precise length of it called out with an audible voice by the returning officer, and marked by the elerk. Let then another rod be drawn from the opposite side, with the name of the candidate uponit, which shall also be held up in the sight of all present, so as to be legible to them ; after which the name fhall be publicly announced by the returning officer to the clerk, who shall mark it opposite to the measure of the rod before announced ; and so on, till the whole are finished. The clerk shall then read over the whole deliberately, and with an audible vuice, making a pause before every name. This shall then be presented to the returning officer, who shall declare which of the candidates has obtained the longest or the fhortest rod, (as had been previously agreed,) and who is of course to be the member for this time, then signing the paper with the seturn upon it, send it to the person authorised to receive the sime. And thus ends the election.

If those who plead for a reform at present, are seriously desirous of cb. taining the object they profes, a representation totally unbiafsed by the power of the crown, or any other influence, they cannot object to this proposal ; and in that case the great objection to frequent elections, viz. the lofs of labour, and the disturbances which then occur, would be entirely done away, so that even annual parliaments, if the tht proper, might be adopted. I do not pretend to say whether this would be the best mode of elections possible; all that is contended for, is, that the influence now so loudly complained of, would be effectually avoided ; so that if the reformers reject it they must clearly abandon t' eir principle, which will prove thetsome other object is in view than that which is held out to the public.

It is unnecessary to observe, that, on this plan, a certain number of the confidential servants of the crown, to be distinctly specified in the bill, shall be members of parliament, ex officio ; for national businefs could never. be carried on without them : no objection can arise from this circumstance, becau se these would be necessarily confined to such a small proportion of the afsembly that their number could have little effect in determining a majority. For the reasons afsigned in the text, no person will believe that I could seriously expect that this regulation will ever be adopted in; Britain.

220 political progrefs of Britain. Oct. 10. at defiance. It would equally frustrate the views of whigs and of tories, —of aristocrates and democrates, it would diminith the emoluments of lawyers, and disappoint the rapacity of voters. Who then is to support such a proposal? All the active interested turbulent spirits of the nation would cordially unite to execrate it. It could be relified only by quiet, peaceable, honest men; but such men choose to remain in the bosom of their own: families, enjoying the blefsings of tranquillity, while all the others are up in arms against it.

Our author in the course of his work makes some quotations from Dodington's diary, a book too little known; for of all the publications that ever ifsued from the prefs in Britain, this one contains the fullest developement of the of government. In that work are produced many authentic proofs of the most popular ministers recommending in parliament the difsipating of national wealth, under pretexts that they knew to be false, and opposition even concurring in these measures, knowing them to be false, rather than run the risk of disobliging certain persons. The same thing has occurred during the political life of persons now on the stage. Yet as long as ministers shall have places and money to bestow, they will continue to be idolized by their party; and as long as others expect to get into place, they will take care not to touch upon certain topics that they think too tender to be publicly investigated by them.

Let us not deceive ourselves. In the political world, the love of plunder is the universal passion. Its influence is there as universal, as that of gravitation in the physical world. It is this which, like affinities in chemistry, is the cause of all those wonderful combinations and separations, which keep the universe in a perpetual state of hostilities and ferment; it is this all powerful agent which sets reason at defiance, and overturns in a moment her sovercign decrees. By its irresistible influences Oct. 10. the views of democrates, yers, and disn is to support turbulent spirits execrate it. It e, bonest men; m of their own ty, while all the

some quotations nown; for of all refs in Britain, of the of of many authentic mending in parunder pretexts even concurbe false, rather ons. The same of persons now hall have places be idolized by get into place. tain topics that igated by them. political world, on. Its influvitation in the es in chemistry. nations and serpetual state of powerful agent urns in a motible influence,

1792. pulitical progress of Britain. 228 we see Britain founding fresh colonies, at the very moment that reason, supported by the most decisive experience, has convinced every thinking person in the nation that we made a most valuable acquisition, when we lost our American colonies. By its influence we see the British arms employed to extend our empire, as we vainly call it, in the cast, at the very time that we are professedly execrating war and conquest. When ecovomy is the favourite topic of the day, we are lavishing our treasures in enterprises, from year to year, that can have no other tendency but to generate fresh wars, and accumulated expences to an indefinite extent. All these things the love of plunder can perform ; it can do more,-it can' cause the most extensive monopoly in trade that ever existed, be cherished in the heart of a nation which boasts of its freedom, and execrates monopolies in trade. Under. the influence of this all powerful agent, prosecutions against delinquents are commenced ; by its influence alsothey are suspended; individuals are allowed to raise the price of articles, of universal consumption, almost to what height they please, by a careful exclusion of all others from coming into a fair competition with them .- We should never have done, were we to enumerate the hundredth part of the things that can be effected by this domincering and irresistible agent, that has so long extended its ravages in

The writer of the pamphlet under consideration, has traced, with a bold outline, some of its effects in the bigher departments of society; but he has in a great measure lost sight of it among the *lower orders of* people, where its influence is as extensive, and where it rages with as unlimited sway, as among their superiors. He proves, thet some princes are extravagant, ministers prodigal, and parliaments venal; from all which many will probably

the world.

Oct. 10: political progrefs of Britain. infer, that princes are pernicious, ministers destructive, 222 and parliaments uselefs. But unlefs it could be proved, that the electors are lefs venal than the elected ; that the lower orders of people are lefs corrupted than the higher; that the illiterate have more knowledge than the learned ;. and that personal property will be more anxiously preserved inviolate by those who have little to lose, than by those who have much at stake, we shall be obliged to admit that, notwithstanding all the weaknefs, extravagance, and follies of the higher ranks, it is by no means clear that we should be gainers by transferring power from. their hands into the hands of others, who would in all human probability be weaker, more extravagant, foolifh, and wicked than the others. Indeed the experience of all past times fully proves, that, among a people whose morals are already lax, whose manners are corrupted by luxury, and whose conduct is not influenced by the ties of religion, the people would not probably, but certainly, be more corrupted and base than their superiors. Witnefs the shocking scenes at present acting in France, which it is impossible to mention without horror. Scenes which, for atrocity, have no parallel in history; but which, in kind, more nearly resemble the transactions of the Roman Pretorian bands than any other. To give power to such. persons, is to kindle a fire that consumes, and which can only be extinguished by the destruction of the whole maís.

While we remain in this world, evils must subsist; and under every arrangement of things, wickednefs must still abound. If therefore we were to reject every government that is imperfect, we would annihilate the whole; and every man would, of course, pillage, rob, or murder at pleasure, another who was weaker than himself. That government is surely the most perfect, which is so con-

Oct. 10%. ers destructive, ould be proved, cted; that the han the higher; an the learned ;. anxiously pree to lose, than. be obliged to s, extravagance, o means clear g power from. o would in all vagant, foolifh, experience of people whose corrupted by ed by the ties of it certainly, be iors. Witness ance, which it Scenes which, but which, in s of the Roman power to such. es, and which on of the whole

must subsist ;. ickedness must. t every governte the whole; b, or murder at himself. That ich is so con-

political progrefs of Britain. 1792. 223 stituted as to be able to protect individuals, and p reserve good order, even where vices and errors subsist among both the governing, and the governed. An institution which necessarily supposes that virtue must undoubtedly prevail among the one or the other, is by no means calculated for man in an advanced stage of civil society, nor can such a form of government any where subsist, for a continuance of time. Our business, therefore, ought to be, never to hope to extirpate vice,-to eradicate error,nor to be able to lop away every species of corruption; but to correct errors in the best way we can, wherever we discover them,-to lessen the influence of vice, and to moderate the effects of corruption. Had the writer of these efsays bestowed as much attention on the influence that the corruption and vices of the lower ranks of the community produce, or would produce, if unrestrained, as he has done with regard to those of the higher orders; and had he with a patient discrimination suggested the means by which the one and the other might have been effectually moderated, he would have conferred an efsential benefit on mankind. As he has omitted to do this, the efsays can have no other good tendency, but to rouse the attention of the reader to a few objects that surely highly deserve his notice. These things should have been done, and the others not left undone. It is extremely doubtful however, if much good can result from this kind of partial investigation. To a mind warmed by philanthropy, and illuminated by knowledge, it would seem that an effectual cure should be ready prescribed before the wound is probed; otherwise, it is like opening a sluice, before a channel has been prepared to receive the superabundant water. In that case it must accasion infinite havoc before it can work out a natural channel for itself. But it is an easy matter to point out errors; it requires talents of a very different kind to com-

224 notice of Billings's discoveries. O cl. 10. prehend the means of correcting these. Thinking superficially, and writing holdly, is all that is necessary for the one; a mind capable of the most vigorous stretch of comprehension is required for the other: a pamphlet may suffice for the one; but for the other, a work of great extent, and profound investigation, would be required. Need I add, that the first would have many readers, who would think they understood, and therefore who liked it; the last would find few who would read it, and fewer still whe could comprehend it.

NOTICE OF BILLINGS'S DISCOVERIES IN THE NORTHERN ARCHIPELAGO.

Our readers are already informed of the general progrefs made by captain Billings, Bee vol. ix. p. 61.' That enterprising navigator, in the course of his voyages among the northern Archipelago, picked up a great many animals, plants, and articles of drefs of the natives, which he sent in several boxes to the empress. Mr Pallas had not had leisure at the time our information left Rufsia, to examine the animals; but he had distinguished among the plants, several new kinds of sopboro, croton, gnaphalium, andromeda, potentilla, amemisia, and rbododendron ;- a black lily, whose roots are tuberculose, and serve as food to the natives;-- a new perennial gramina, whose stalk is very large, and contains a great quantity of grain proper for the nourithment of man ;-several legumina, likewise fit for food,-a kind of fir,-a species of sorbus,-and a dwarf willow. These trees, which do not rise above three feet high, are the only ones which grow in the isles Kourites and Alcontes. where they found the Alpine plants of Kamschatka and Siberia. It is much to be regretted, that captain Billings could not send seeds of these plants, as he visited these islands, before they had attained maturity.

Notes to correspondents deferred.

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general progress I.' That entervoyages among. t many animals, , which he sent had not had lei-, to examine the e plants, several ndromeda, potenily, whose roots atives;-a new ge, and contains nourishment of od,-a kind of villow. These gh, are the onand Alcontes, schatka and Siptain Billings e visited 'these

97. THE BEE, or *LITERARY WEEKLY INTELLIGENCER*, for Wednesday, October 17. 1792.

CONCERNING THE INFLUENCE OF TASTE ON THE HAPPINESS AND GLORY OF NATIONS.

Concluded from p. 161.

HAVING considered how taste promotes the happinefs of individuals, of families, and of society, I am to conclude the whole of my discourse concerning this important subject, by pointing out the effects of its influence upon the prosperity and happinefs of the public at large.

Taste, (says the excellent Montesquieu,) in the most general definition of it, without considering whether good or bad, just or not just, is "that which attaches us to a thing by sentiment."* In the former part of this slight efsay I have endeavoured to fhow how the principles of taste are evolved in the pursuits and habits of those who have been fortunately emancipated from the grovelling desire of sensual pleasure, and how it operates in the infinite extent of rational curiosity, where one clear idea leads • Montesquieu on taste, a tragment. See Dods'ey's annual register, velume i. p 311. vol. xi.

226 on the influence of taste. Oct. 17. to the pursuit of another, in a chain whose beginning is no where, and whose links are every where, after the nature of that infinite and perfect Being in whom we live, and move, and have our existence, and whom we can only resemble when we raise ourselves above the range of brutal enjoyment.

2dly, In the pleasure derived from the contemplation of order; and of order amid variety. 3dly, In the pleasure arising from symmetry or of fitnels and utility. 4tbly, In the pleasure that arises from contrast. 5tbly, From surprise, terminating in a scientific acquaintance with the cause from whence it arose. 6tbly, In delicacy of sensation which enables us to feast on the graces that are evanescent or impalpable to the eye and apprehension of the sensualist. And finally, in the complete establifhment of the habit of intellectual desire uncontrouled by vulgar appetite, or enervated by idlenefs and sloth.

Now, it is evident, that as a nation, or what we call, in the most extensive acceptation of the word, the public, is no more than the aggregate of individuals, families, and communities, so whatever can render the parts more perfect, must tend to the perfection and happiness of the whole.

But the subject is so delightful and important, that I shall be easily forgiven when I shall have traced the more immediate effects that must be produced upon the active powers of government, and upon a people at large, by the differination of that taste which is the subject of my present discourse.

It was undoubtedly to the difsemination of taste

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important, that ill have traced at be produced at, and upon a of that taste scourse. nation of taste 1792. on the influence of taste. 227 among the richer and higher ranks of men in Greece and Italy, that mankind were indebted for any relaxation of that fhocking and barbarous inequality which took place among their feudal and military institutions, where the prince and the soldier were every thing, and the people nothing.

It was to the same existing causes, encreased by the intervention of the printing prefs and the engraver, that France, under a similar government, from the reign of Henry 11. to the death of Lewis XIV. enjoyed the small degree of happinefs that fell to its fhare, during those times of trouble, or of monarchical vanity and ambition; and to the same causes France and the world is indebted for the preeminence that good sense has obtained over the enslaving maxims of an all-grasping church or turbulent nobility.

By this very taste, or power, or sentiment, operating extensively through the channels of literature, mankind are now satisfied that the happiness of the people ought to be the supreme law, and the rule of all government, as well as its final object in its administration.

I know very well that the extensive differmination of taste and sentiment among the lower ranks of men, is scouted by the great and opulent, and by a monstrous delusion is not approved of by some, who, in the odour of diabolical antiquarianism, adore the rust of chains that are ancient, and are carelefs of those things that are of universal utility, and general concern, and competent to all men.

But a light has begun now to fhine out of darknefs, which, though it makes the eyes of the darkling to

228 society of Arcadia. Oct. 17. blink, and seems like a bright and airy meteor that is destined to perifh, will, in the end, be chosen rather than darknefs, if our deeds are not evil, and will fhine more and more towards the perfect day of political perfection.

It is for this reason that I prefer the communication of scientific, moral, and political knowledge, in a pamphlet or a magazine, to fifty volumes in folio of the fathers, or of the commentary of Aristotle ; and that I have thought my time well bestowed in conveying to the people at large, through the channel of this miscellany, the imperfect efsay of its wellwifher and reader. A. B.*

ACCOUNT OF THE SOCIETY OF ARCADIA, BY ABBE TOURNER.

Concluded from p. 88.

The Parrhasian grove, (il Bosco Parrasio) where the Arcadians afsemble in summer to repeat their compositions, was first in a small forest belonging to the convent of St Pietro in Montorio; from this the denomination was transferred to a place in the villa of the duke of Paganica at St Pietro in Vincoli, where the fhepherds had no other place to sit upon but the grafs. Until this time no body was admitted except the Arcadians; but their fame attracted many who requested to attend as auditors, and in a fhort time no

• The Editor is much indebted to this obliging correspondent for these ingenious efsays, though he cannot help thinking they would have been more generally telified, had the illustrations had lefs tendency to political affairs. On this subject men's opinions will always differ; and consequently arguments, though just, when thus illustrated, lose of their effects. It is for future correspondents this hint is intended.

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sio) where the eat their comlonging to the m this the dein the villa of incoli, where t upon but the imitted except ted many who a fhort time no

espondent for these ey would have been tendency to political differ ; and conselese of their effect.

\$792. society of Arcadia. person was denied admission. They obliged the Arcadians to assemble in a larger place which was in the gardens of duke Riario, at present belonging to the Corsini family, which the queen of Sweden had formerly possefsed. In the year 1693, the duke of Parma built a theatre for them on mount Palatine: but the duke's minister at the court of Rome having taken some umbrage at an eclogue repeated by two Arcadians, the general afsembly, in order to avoid all disagreeable encounters, prudently found means to remove from the Orti Palatini, without giving offence to the duke. This happened in 1699. and Iliso (duke Antonio Salviati,) invited the Arcadians to his gardens at the Lungara. His death in 1704, obliged. them to perform in the following year the Olympic games in honour of the deceased Arcadians, in the gardens of Eutimene, (prince Vincenzo Giustiniani,) out of the Flaminian gate. In 1707, they were received by Olinto, (prince Francis Ruspoli,) in his' gardens on the Esquilin. Five years after, the same Olinto caused a magnificent theatre to be prepared, of three orders of seats, and a statue of Apollo at one end, in another garden of his, on the Aventin. At' length when king John v. of Portugal was acclamated an Arcadian shepherd, under the nam of Arete Melleo, afsigning to him the Mellean lands, which had been in possession of the deceased Alnano, (pope Clement XI.) he made a present to the Arcadia of four thousand crowns, with which a piece of ground was bought on the declivity of the Gianiculum, in the year 1726; since which time this society

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230 society of Arcadia. Oct. 17. have enjoyed it, and have, in the summer time, their public and private meetings. The form is of a small simple amphitheatre, with three rows of stone seats, surrounded with fine luxuriant laurel trees; the walls that enclose the amphitheatreate decorated with marble inscriptions to the memory of the deceased Aracdians, who either had, by an universal renown, added particular lustre to the society of Arcadia, or had bestowed upon it some extraordinary favour.

The first that had this honour decreed to him, seven years after the institution of Arcadia, was Amicio (Dr Francesco Redi,) well known as a profound philosopher, and an elegant poet. To obtain such a degree, one of the Arcadians presents a request for making an inscription to the memory of any one he thinks deserving of such a distinction. The custode then gives the commission to some fit person of the society to write his life, which is sub ited to the inspection of three other Arcadians, er to examine whether, from it, the reresults the universal fame required, after which they give their opinion in writing, and the person who makes the request, is at the expence of the stone, as well as of the portrait in copperplate, which, with a copy of the inscription, is prefixed to the life that is printed when there is a sufficient number to make a volume. There are already five volumes in 4to of them, and materials ready for a sixth *.

• As a specimen of the true, neat simplicity of the lapidary stile, I have ebsen four of the inscriptions, out of the many that exist. The first is to the memory of Vincenzo Leonio; the second of pope Clement x1; the third of Vincenzo Viviani, the last scholar of Galileo; and the fourth of the Marchese Perronila Mafsini, an elegant poetcfs. Oct. 17. mer time, their rm is of a small istone seats, surrecs; the walls decorated with he dcceased Arrsal renown, ad-Arcadia, or had favour.

reed to him, seadia, was Amias a profound To obtain such its a request for of any one he . The custode t person of the it ited to the r to ex-

e universal fame opinion in wriequest, is at the portrait in copcription, is prethere is a suffinere are already crials ready for

e lapidary stile, I have exist. The first is to pope Clement X1; the to; and the fourth of 1792. society of Arcadia. 231 La Capanua del Serbatojo is the name that the founders of this pastoral society gave to the place,

> C. V. C. Uranio Tegæo, P. A. xilii. Viro I: stitutorum Arcadiæ Italicæque Pocseos Romæ Restitutorum Principi Cörtus Arcadum P. Ol. pcxxtv. ann. iii, ab A. I. Ol. v111. ann. ii.

II. C. V. C. Alnano Melleo Arcadi Accl. Pastorum Maximo Coetus Arcadum P. Ol. DCXXV. ann. i. ab A. I. Ol. VIII. ann. iii. Cum Ludi Agerentur.

JII. C. V. C Heroni Geonio P. A. Df. Mathematico Arnaurus Epirius P. A. x11, Vr. Coll. Arc. S. Ld. F. C. Ol. DCXX1, ann. i, ab A. I. Ol. rv. ann. iii, C. L. A.

1V.

C. V. C. Fidalmæ Parthenidi N. A. Poetriæ Bandalius Phezæus P. A. Mulieri Clarifs, P. Ol. pexxv1. ann. ii. ab A. 1. Ol. x. ann. i.

After a revolution of three or four thousand years, in which time flurope may have been buried ag in in the darknefs of ignorance, and all monuments of learning destroyed, if these inscriptions shall happen to be dug up again, what excellent food for the conjectural imaginations of antiquations of the second s

Oct. 17. society of Arcadia. 232 where are preserved the compositions, either in prose or in verse, which have been repeated in the Parrhasian grove, besides letters of Arcadians, relating either Arcadic or literary businefs; and other authentic papers belonging to the society, the original catalogue of the Arcadians, the emblems of all the colonies, the narration of all the deeds of Arcadia, (Fasti Arcadici) the seals, and the portraits of many Arcadians, as it is permitted to every one to send his own. The situation of the Serbatojo has always been, until now, in the lodgings of the custode. It may be not only looked upon as the register office of Arcadia; but likewise 23 its secretary office; for all the diplomas are dated from the Capanna del Serbatojo. In the time that the Parrhasian grove is not kept open, from the 7th October, to the 1st May, the Arcadians assemble in the Serbatojo, to transact their businefs, and repeat their compositions. In the guardianship of Fi-Sacida Luciniano, (Abate Lorenzini,) for some reasons of his, the Parrhasian grove was not opened for many years, and then the custom took place to have private alsemblies every Thursday in the Serbatojo, which are now continued, beside the public ones. But Lorenzini to make amends for this silence, erected a little theatre near the Serbatojo, where he caused the comedies of Plautus and of Terentius to be acted by several young gentlemen, who performed to such perfection, and with all the decorations in character, that not only all the literati, the nobility, foreign ambassadors, and cardinals, frequented this new flow ; but pope Clement XII, Corsini, seut several times to Lorenzini large sums of money, in

Oct. 17. s, either in prose in the Parrhasis, relating either her authentic pariginal catalogue the colonies, the (Fasti Arcadici) Arcadians, as it sown. The sibeen, until now, may be not only of Arcadia ; but all the diplomas tojo. In the time ot open, from the cadians afsemble husinefs, and reardianship of Fi-,) for some reais not opened for ok place to have in the Serbatojo, the public ones. his silence, ereco, where he cau-Terentius to be , who performdl the decoratie literati, the nodinals, frequented XII, Corsini, seut ims of money, in 1792. society of Arcadia. 233 order to enable him to have the Latin comedies represented with the necefsary decorum. The theatre got the name of Sala Latina; and the cardinals Gentili and Corsini were declared protectors of it.

The public assemblies for the rehearsal of compositions in the Serbatojo, are no lefs frequented than at the Bosco Parrasio ; but it is extraordinarily so when it is known that there is l'improviso or singing poetry, extempore, a prerogative which I believe is peculiar to Italy. Sometimes the poets will challenge one another in rhime, and find out reciprocally a subject; at other times any of the company is invited to give a subject, which, if there be two or three im-. provisatori, is generally of the problematic kind, that each may choose an opinion, and thus form an agreeable contention. Two or three different subjects have been given by different persons at the same time to Abate Serio, a Neapolitan ; he makes one of them the principal subject, and introduces the others as episodes; and thus goes on for an hour or two singing poetry extempore. Among the old Arcadians were famous for improvisare, Tirsi, the (Avvocato Zappi,) Benaco, (Cononico Grazzini,) Fedreo, (Giuseppe Vaccari.) Eulibio, (Paolo Rolli,) Fausto, (Paolo Vannini,) Eniso, (Domenico Ottavio Petrosellini,) Artino, (Pietro Metastasio,) from his younger years, and Alauro, (Cavalier Perfetti,) who at the request of the princefs Violante of Bavaria, dowager of Tuscany, then in Rome, got the laurel crown in the Capitol ; which coronation was very much opposed, as it was al--VOL. XI. GG +

society of Arcadia. Oct. 17. 324 society of Arcadia. Oct. 17. leged that the laurel crown was at all times reserved only for epic poetry, as indeed all those who had been crowned in the Capitol before him had been so on account of their epic poems, exclusive of their other poetical performances. In the latter times we have had Acromelo, (Agostino Germisoni,) Euridalco, (Abate Golt,) Aurasio, (Abate Versari,) Enisildo, (Abate Giuseppe Petrosellini *,) Abate Rocchetti, Abate Berardi, Abate Casali, Giacomo Diolle, and Giuseppe Giordani, who have displayed in Arcadia their talents in singing poetry extempore; the two last particularly excelled in the jocose style. Two ladies, likewise, Arcadian nymphs, have made the Serbatojo resound with their elegant improviso : Efiria Corilea, (Signora Anna Parisotti Beati,) and Corille. Olimpica, (Signora Maddalena Morelli Fernandez.) The latter was likewise. crowned in the Capitol; but fhe was rather sacrificed, by the foolish manner the business was brought about by her protectors, who were besides nowise acceptable to the public ; so that it had more the appearance of a mock coronation, than any thing else. I cannot take leave of this subject without making particular mention of another Arcadian nymph, although the has never been at Rome, and who is the admiration, not only of her own countrymen, but of all foreigners of learning and taste who have the opportunity of conversing with her, on account of her profound knowledge, united to extreme modesty, and of the most pleasing entertainment they enjoy from her readinels in the improviso, wherein the most deep seience is elegantly set off by the most chaste beauties

* Some of the Arcadian names have escaped my memory.

Oct. 17. ll times reserthose who had had been so on of their other es we have had idalco, (Abate do, (Abate Giu-Abate Berardi, seppe Giordani, alents in singparticularly exlikewise, Arcaio resound with , (Signora Anna (Signora Mader was likewise ather sacrificed,. vas' brought 2besides nowise ad more the apany thing else. I out making parymph, although o is the admiranen, hut of all ho have the opaccount of her me modesty, and ey enjoy from her he most deep seit chaste beauties memory.

society of Arcadia. 1792. 235 of true poetry; I mean Temira Parraside, (Signora Fortunata Sulcker Fantastici,) in Florence. In the same town I have had the pleasure to be intimately acquainted with Dr Giannetti, who, to application to the severest studies, has added the amenities of the fine arts. The astonishing rapidity with which he speaks his extempore poetical performances makes up for his want of voice, which hinders him to sing at the sound of the luthe, as is commonly in use with the improvisatori, though Corilla used to sing her poetry at the sound of the violin, especially where the could meet with Nardini. Nor is this ready disposition to extempore poetry peculiar to people of education; that natural keennefs of sense for harmony, numbers, and metre, which may he reckoned one of the first things requisite to form a poet, is not rare in Italy, even among the country lads and girls, chiefly in the environs of Rome and Florence, who, not knowing even to read, and totally ignorant of metrical laws, will sing verses all' improviso upon any given subject, suited to their capacity, with the only guide of their ear, without ever transgressing the accents or he measure; though many learned people, and was acquainted with the laws of versification, would find it very difficult to execute, without counting the syllable on their fingers. It is pleasant in Rome, in the summer nights, to follow some of these jully fellows, most of them journeymen mechanics, and hear them sing their rhapsodies, in which many fine, natural, unsought postical flashes, lighten through the clouds of their uncouth language. The like pleasure was for-

236 society of Arcadia. Oct. 17. merly enjoyed in Forence, at Ponte Santa Trinita, where the improvesatori would resort with their luthe, or their guittar, and challenge one another to sing, like the thepherds of Theocritus or Virgil. This was in the joyful days of the Medicis. Thuscany is now more like a mournful daughter, heartily bewailing the lofs of a tender, careful, and indulgent father ;—her times are changed ; even her language, one of her chief boasts, is corrupted,—Frenchified by the Lorainese, and Germanised by the Austrians that have crept among her inhabitants with her new masters.

The ordinary method of being admitted a member of the society of Arcadia, is to be proposed by two of the Arcadians, who answer for his abilities and good behaviour; and every person that has had a good education may be admitted. But when the fame of the Arcadians began to spread, and that people of rank, and cardinals began to frequent as auditors, which at first was permitted only to the Arcadians, the custode Alfesibee devised the admifsion by acclamation. The cardinals who were most afsiduous in attending their rehearsals were Carpegna, Buonvisi, Panfilio, Ottoboni, and Albani, who was afterwards exalted to the pontificat. In the year 1695, one day they had been all five attending the first meeting the Arcadians had in that year, a general afsembly was formed, and when the cardinals were gone out, they were unanimously, viva voce, accalmated Arcadian shepherds; and it was afterwards decreed, that none fhould be received an Arcadian, by acclamation, but monarchs and sovereign princes, Oct. 17. Santa Trinita, ort with their one another to us or Virgil. edicis. Thusghter, heartily and indulgent her language, Frenchified by the Austrians with her new

tted a member oposed by two is abilities and hat has had a But when the read, and that to frequent as d only to the sed the admifwho were most s were *Carpeg-Woni*, who was In the year e attending the t year, a genethe cardinals

the cardinals , viva voce, acwas afterwards an Arcadian, ereign princes, 1792. society of Arcadia. 237 cardinals, grand masters of military orders, the senator of Rome, viceroys, ambafsadors of princes or republics, and the nephews of popes actually reigning.

The deduction of colonies was one of the strongest instruments the Romans made use of, even from the times of Romulus, to form and to maintain the happiness and splendour of their wise commonwealth, and their powerful empire. By easily admitting strangers to the privilege of Roman citizens. and by sending citizens from Rome, among foreign nations, Rome did, in a manner, form one people of the many nations the conquered, and gradually conveyed to them her manners, and her laws; and established by her prudence, what she had acquired. by her valour. Although I do not pretend to compare with the real dominion of the Roman republic, the affairs of our literary afsembly, which are only imaginary, yet, I may say, that by the same means which ancient Rome made use of to make all the nations become Romans, our Arcadia has attained to make one body of all the literati, at least the Italians, to the purpose of propagating that good taste in writing, which had been adopted by the Arcadians, and which at that period was not to be found among others ; and in order that Italy fhould recover the possefsion of thinking justly, and of writing according to the rules and the models of her own best authors. The means to attain this, have been an easy reception of any person that discovered a genius capable of fhining some day or other in the sciences or belles lettres ; and in deduc-

33 society of Arcadia. Oct. 17ting colonies among the literati who were far from Rome. By the first, youth is accustomed to imbibe early the best stile; and, by the second, the same good stile has been introduced and is preserved among the most lively, and most illustrious geniuses of Italy. There are above sixty of these colonies, in different parts of Italy, and one even in *Carinthia*, in the town of *Lubiana*.

The colonies depend on the general assembly in some particular things; but are free to keep their literary afsemblies when and where, and on what subject they please, and create their own magistrates, and choose their censors. The authority the general assembly has reserved to itself over them, is to ratify the choice of their new fhepherds, and deliver their diplomas, without which they are not considered as Arcadians ; to choose the vice custode of the colony out of the two presented by the colony; to decide the disputes which may arise in the colonies; and the approbation of the works which are intended for the prefs, with the Arcadian names, or the arms of the colony, or that of the general alsembly. The arms or emblem of Arcadia, is the seven reeds, or syringa, which the colonics quarter with their own.

As the institutors of this pastoral society had devised to conceal, under pastoral names, the persons who composed it, they likewise imagined to make use of the Olympiads of the ancient Greeks in their date of time. Thus, after the course of about fifteen centuries, that the computation by Olympiads had ceased, our literary society reafsumed the use of it, and destined the end of every Olympiad for the celeOct. 17. were far from omed to imbibe , the same good eserved among miuses of Italy. es, in different arintbia, in the

al assembly in e to keep their nd on what subn magistrates, ority the geneover them, is to rds, and deliver e not considered de of the colony y; to decide the onies; and the intended for the the arms of the . The arms or eds, or syringa, own.

society had dees, the persons agined to make Greeks in their of about fifte en Olympiads had ed the use of it, iad for the cele-

society of Arcadia. 1792. 239 bration of the Olympic games, by substituting for the games formerly directed for bodily exercise, others established for the exertion of the mind and talents. The commission to settle perpetual Ephemerides to be observed in the affairs of Arcadia, was given to two famous astronomers, Selvaggio, (Monsignor Francesco Bianchini,) and Aci, (Dottor Eustachio Manfredi,) who made their exact observations, and presented them to the general assembly in the year 1693, when it was decreed, that, from that time forward, all the businefs in Arcadia should be regulated according to them. The joyful and melancholy days were fixed,-the first to be marked by the custode with a laurel branch,-the second with one of cyprefs. Melancholy days, are those in which the death happens of an acelammated Arcadian, of a general custos, or of any that are actually colleagues or vice custode of a colony ; joyful, that of the pope's election, with the two following days; of any Arcadian being raised to be a sovereign, or a cardinal; that of the election of a new custode ; and all those days in which there is the meeting of a general afsembly. Three particular days are considered perpetually joyful, the 5th of October, on which this literary society was instituted; the 20th of May, when the laws were proclaimed; and 25th of December, in which falls the commemoration of the nativity of Yesus Christ, the tutelar saint of Arcadia.

From this rough fketch, one may well understand, in what esteem and renown our pastoral society has, from its infancy, been held all over Italy, so as to make all the Italian *literati* willingly submit to

240 on personal pronouns. Oct. 17the revolution it produced in reforming the bad taste that prevailed in that time; to induce all the Italian sovereigns to encourage literary afsemblies in their dominions, as colonies of the Roman Arcadia, and many of them to become Arcadian fhepherds themselves; and to favour, with all their power, this literary society, far from having the least jealousy that the appearance of so perfect a democratical government, might ever influence to the destruction of monarchy. I am, dear Sir, your most humble servant, FILILLO LIPAREO. P. A.

GRAMMATICAL DISQUISITIONS.

Continued from p. 204.

Of the derivatives from personal pronouns.

THE above are all the variations, as far as I at present recollect that the personal pronouns themselves admit of. But there are several words which have been usually admitted into the clafs of pronouns, some of which being plainly derived fron the personal pronouns, and nearly connected with them, require to be here particularly adverted to. The words here alluded to may be arranged into two clafses, as under :

Clafs First, My, Tby, Our, Your, Her, Their-Clafs Second, Mine, Thine, Ouri, Yours, Hir, Hers, Its. There-With regard to these words, we do not find that

grammarians are agreed by what name to call them, or what rank they fhould hold; but almost all agree in clafsing them among the pronouns, from which they

Oct. 17. ig the bad taste all the Italian mblies in their Arcadia, and epherds thempower, this lileast jealousy a democratical the destruction ost humble ser-AREO. P. A.

FIONS.

pronouns.

ar as I at preuns themselves ds which have s of pronouns, ron the persowith them, reted to. The nged into two

Her, Their . is, Hers, Its. The rs. o not find that e to call them, nost all agree in om which they

1792.

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are obviously derived. Without spending time in examining their several hypotheses, let us rather try if we can at once discover what are the real distinguifning characteristics which should determine their name and situation in grammar.

on personal pronouns.

It is, in the first place, very evident, that the word my, is equivalent, in power, to what has been usually called the genitive case of our English noun, being in signification very nearly equivalent to the phrase of me. Thus, the phrase, " this is my house," has nearly the same meaning as if it were, " this is the house of me." By a similar mode of analysis, we shall find that the words, thy, our, &cc, of the first clafs, are precisely of the same import with my, having in all cases a meaning nearly the same with that of the pronouns from which they are respectively derived, when the word of is prefixed to them.

We observe also, in the second place, that the word mine has a signification nearly allied to that of my, though it obviously differs in certain particulars. We can, for example, say with propriety, " this ia my house," but not, "this is mine house." And the same observation will apply to all the other words of this clafs.

. Again, we say,

" My bouse is better than thine; but thine is more elegant than mine."

In this sentence it is evident that the word mine, is substituted for the phrase, " my bouse," i. e. " the house of me;" and the word thine, for the phrase " your bouse," which is equivalent to " the house of thee or you." Accordingly, we find that the sense would be the same were it written in either of these ways, as under. VOL. xi. нн

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on personal pronduns.

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My bouse is better than sbine; but shine is finer than mine, or, My bouse is better than sby bouse; but sby bouse is finer than my house, or, My bouse is better than sbe bouse of sbee; but sby bouse is nave than sbe house of me.

The word thine, therefore, in this example, is nearly equivalent to "thy house, or the house of thee," and mine, to "my house, or the the house of me."

Again, fhould we attempt to banish the words mine, thine, and the others ranged in the last class, and substitute those of the first class in their stead, we should find a great want in language.

Thus, continuing the same phrase,

" My bouse is better than iby; but thy is finer than my."

We immediately recognise, that, unlefs the word bouse be added to the words *tby* and *my*, the sense must be incomplete, which is not in the least necessary when *mine*, *tbine*, and others of the same clafs are employed.

By this kind of analysis we are led to perceive, that the words belonging to the first of these clafses, my, thy, &cc. cannot with propriety be called pronouns, seeing they do not come in the the place of any noun whatever. But that, instead of a noun; they only supply the place of a pronoun itself; and. that the very pronoun, whose place this word occapics, is not itself the substitute of a noun on this occasion ; but merely the substitute of a definitive only. To make all this plain, let us suppose in this case the speaker to be James, and the person addrefsed to he John, then the phrase " my bouse," would be exactly the same with " James's bouse." The word my is therefore an exact substitute for the word James's, which I had occasion to fhow on a former creasion, is not a noun, but a definitive only. In

Oct. 17.

han nine, or, ie: than my house. or, ouse is incor than the

is example, is bouse of thee," use of me." with the words the last class, in their stead, ge.

r than my." anlefs the word my, the sense least necefsary same clafs are

d to perceive, f these clafses, be called proe the place of ead of a noun; un itself; and. his word occuoun on this oca definitive onuppose in this person addrefbouse," would se." The word for the word w on a former tive only. In

1792. on fersonal pronouns 243 the same manner we might flow that "thy bouse," was the substitute of John's bouse; and so of all the others of this clafs, which on all occasions are the substitute of some definitive, and of nothing else.

On the other hand, we are also led to perceive, that the words *mine*, *thine*, and others of the same clafs, become the substitutes, not of the definitive alone, but of the *whole noun with its definitive*, "John's *bouse*." Thus the phrase,

" My house is better than thine,"

supposing the parties to be *Jumes* and *John*, as above, is precisely equivalent to the phrase,

" James's bouse, is better than 'John's bouse."

in which the word *thine*, plainly becomes the substitute of the whole noun with its definitive, *Yokn's house*, though my is only the substitute of *Yames's*.

Hence we are farther led to observe, that the words of the first clafs, my, tby, &cc. are nothing else than a certain clafs of definitives derived from pronouns, which may, in a pronomial fashion, become the substitutes of a particular clafs of definitives derived from nouns in a certain manner; and therefore may be called, for want of a better name, pronomial definitives. The words mine, thine, and others of this clafs, however, do more, as they become the substitutes, alike, of the noun and its definitive; and as it has been the custom on some occasions to call these words pronouns possefiere, I can see no harm that would result from allowing them still to retain the same name.

According to this distinction then, our personal pronouns, with these derivatives from them, might stand as under.

Pronoun } Mine Ours Thine Definitive, Nominative, Accusative, N. B. Wherever a word is obliged to perform a double office, it is printed in Roman characters, where it stands in its proper place ; and in Leaker when placed where it ought not to be. A Table of the English PERSONAL PROMOUNS, with their DERIVITIVES, and the VARIATIONS these words Singutar. Plural. My Me Pronoun of the 1st Person. H Our We Ū, Thy Thee or ye You Thou or you Ye or you Singular. Plural. Pronout of the 2d Person. respectively admit of. Yours Your Singular. Maic. Frm. Nexter. He She It His Hers Its Theirs His Her Is Him Her L Pronoun of the 3d Person. Them Their Plural. They John's Ann's Cyder's Jobn's Ann's Cyder's John Ann Cyder John Ann Cyder Nouns

A Table of the English reasonaic

PRONOUNS, with their DERIVATIVES,

and the VARIATIONS

these

Words

on personal pronouns. 1792. 245 By glancing over this table, we are enabled to discover some defects in our language, that otherwise are not very apparent, which have not, that I know, been hitherto remarked. Thus, in the pronoun of the third person singular, we observe that the words bis and its, are each of them compelled to performalike the office of definitives and possessives. The word ber, is, in like manner, forced to do the double office of accusative and definitive, while the word it, performs alike the office of nominative and accusative. These are great defects which have escaped our notice, merely because custom has rendered this double use of them quite familiar to us. The following example will illustrate this position. his

" His bouss is better than bers, but bers is finer than the " " My bouse is better than yours, but yours is finer than being ."

In this example the word bis performs, alike, the office of my and mine, yet the meaning appears complete, though we have already seen that my, if substituted for mine, could not be at all tolerated. Again, in the phrase,

> " It struck NIM and cut NIM eye brow," " It struck NER and cut HER eye brow,"

We observe that the word *ber* performs, alike, the office of both the words *bim* and *bis*, without appearing in any respect improper. How absurd would it seem if we were to say,

" It struck wens and cut wane eye brow."

The same impropriety might be, in like manner, pointed out with regard to the double office performed by the words it and its. But as this will be sufficiently obvious, I do not dwell upon it. It must

246 on the personal pronouns. Oct. 17. be admitted, that we here meet with a very capital defect in a radical part of our language, which requires to be corrected.

One observation here obtrudes itself upon us, and must not be omitted. Many English grammarians have supposed, from the accidental circumstance of the word bis ending with the letter s, and alsuming something like a genitive signification, that those words which have been called English genitives have been formed by adding this letter to the noun, and " James's house" has been supposed to mean " James bis bouse ;" the word bis, being softened by elisis into 's : and some of our best writers have an occasional refinement founded upon this principle. It has, however, been justly observed by others, that this could not be the case, seeing our feminine nouns admit of the same inflection, though the word her, and not bers, is used in that sense, which has been called the genjtive case. Thus, we say equally " James's bouse," or " Ann's bouse ;" though, were we to try to form the genitive on the same principle, we would be obliged to say, " Ann bers house," and not " Ann ber house. This idea therefore is sufficiently refuted from this consideration alone.

From the view we have taken of this subject, we are enabled farther to observe, that in the whole list of pronomial definitives, my, thy, &cc. it happens invariably that this definitive, or genitive, as it has been called, does not at all admit of the final S. unlefs it be in the two words his and its, already taken notice of, as being obliged to perform, alike, the office of the definitive and the possibility. Whereas the posns. Oct. 17. th a very capital guage, which re-

self upon us, and lifu grammarians circumstance of s, and afsuming tion, that those ih genitives have o the noun, and mean " James bis l by elisis into 's : an occasional rele. It has, hows, that this could e nouns admit of her, and not bers. n called the genj-' James's bouse," we to try to form we would be obnd not " Ann her atly refuted from

this subject, we in the whole list ic. it happens inwe, as it has been nal S. unlefs it ready taken no-, alike, the office Whereas the pof**1792.** on personal pronouns. 247 sefsive is as universally formed by adding the final S, the words mine and thine being only excepted *. Hence I would infer that the words his, and its, belong properly to the clafs of positives, and have been compelled, for want of a proper word for the definitive, to do its office also.

From this kind of analysis we are also farther led to observe, that all those words derived from Englifh nouns by the addition of an apostrophised 'S, which have been usually called genitives, are always employed to perform the double office of both definitive and possessive, and are, in this respect, exactly in the same predicament with the words bis and its, above taken notice of. To prove this, we shall adopt the following illustration. In the sentence, " my bouse'is better than yours, but yours is finer than mine," we find, as has been already remarked, that the word bouse can only with propriety follow that cials of words which we have called above, definitives; but it never can follow any of those belonging to the clafs of possessives. Hence it must be added to the words my and your, before any meaning can be got; but it cannot be joined with the world yours, nor mine; we may therefore render that sentence thus.

My bease is better thin yours, but yours is finer than mine, or My bease is better than year bease but your bease is finer than my bease.

• By the bye, in the provincial language of Edinburgh, these words are formed according to the strictest analogy, and are not pronounced mine and thine, but mines and thines; of the last however I am somewhat uncertain.

248 on personal pronouns. Oct. 17. We have already seen, however, that the word Lis is obliged to perform the double office of definitive and pofsefsive, thus,

" His bouse is better than bers, but bers is finer than bis."

In which example, the first bis, stands as a definitive, and as such requires to be joined with the noun it defines; and the last bis, stands as a possessive, and requires not the noun to be added.

In like manner, fhould we attempt to express the meaning of this sentence, by repeating the names of the persons, without using any pronomial word whatever, we shall find that these genitives, as they have been called, may be in all cases applied equally in place of the *definitives*, my, tby, &cc. and the possessives, mine thins, &cc. like the word bis, without any change. Thus, the sentence,

" James's bourse is better than John's, but John's is finer than JAMES's."

" My boute is vetter than bis, but bis is finer than MINE or MY HOUSE." Here the word James's performs alike the part of

my, and of mine. For, similar to mine, we say as above, James's, or similar to my bouse, we might equally say, "finer than James's bouse." In like manner we may either say, as above, "better than Jobn's," or at pleasure, "better than Jobn's bouse;" the word bouse, or the noun explained by the definitive being in all cases of this sort, either added or supprefsed at the pleasure of the composer, which cannot be done either with the words mine or bers. To render this still more plain, I fhall vary this sentence in many different ways, as in the table annexed.

column, are all of that clafs of words which we have called pronouns pofsefsive; as are those of the third and fourth columns also. By glancing the eye on these columns, from top to bottom, is seen at the language is defective ;---in other words, there is a want either of a regular definitive or policfinee. Thus we perceive that the word bis, is irregular; and that, in the same manner, all those definitives V. B. In this table all the words in the first column, my, ber, &c. are definitives. Those in the second one glance, where the language is regular, or the reverse. Where the same word occurs in both columns, Hers, or her house, not hers house Ours, or our house, not ours house Oct. 17. that the word that have been called genitiver, are obliged to perform alike the office of a definitive and poliefrive. office of defini-James's, or James's house Mary's, or Mary's house John's, or John's house Yours, or your house Mine, or my house er than bis." His, or his house inds as a defini-Fougra. with the noun pofsefsive, and to express the is fner than g the names of ial word what-But Jam 3's, or James's house s, as they have John's, or John's house, without change But John's, or John's house But Ann's or Ann's house Yours, or your house, not yours house But yours, or your house Theirs or their house, not theirs house But theirs, or their house lied equally in But mine, or my house But hers, or her houte But his, or his house THIRD. and the possefis, without any TABLE. iner than JAMES's." INE OF MY NOUSE." Mine, or my house, not mine house like the part of His, or his house, without change Heri, or her house, not hers house e, we say as ause, we might James's, or James's house ouse." In like Ann's, or Ann's house SECOND. " better than John's bouse ;" i by the definieither added or mposer, which mine or bers. nant better than l vary this sentable annexed. My house, not mine Her house, not bers FIRST. omes's house obs's house Mary's house His house wr house ur house

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250 the effect of water on machinery. Oct. 17. From a consideration of this table, it clearly appears, that the supposed English genitives perform, in all cases, a double office, exactly analogous to that which is performed by the word bis; which, by not having been adverted to, has augmented the perplexity that these words have occasioned in our grammatical arrangements.

To be continued.

ESSAY ON WATER.

Continued from p. 210.

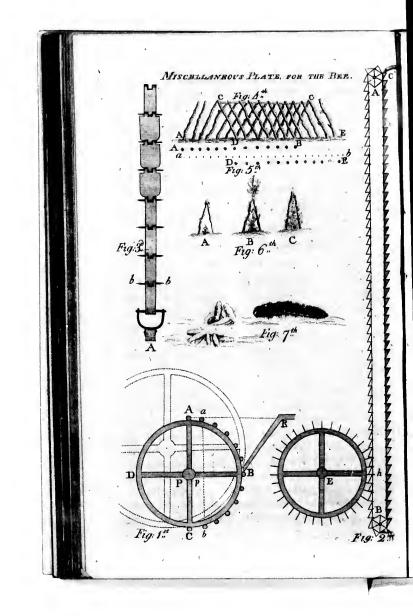
Ir a considerable weight is appended to one side of a wheel that rests upon a pivot in the center, and none at all upon the other side of it, it will follow that the side with the weight appended to it will always descend, and the light side rise upwards, so as to communicate a continued rotatory motion to the wheel,

It is in this way that water becomes a moving power, by its *dead weight*; for if buckets be so fixed upon the wheel as to have their mouths upwards, and open to receive a stream of water as they pafs under it, at, or near the top of the wheel on one side, so as to descend full, the mouth of these buckets must be turned downwards at the bottom of the wheel, if immoveably fixed upon it, so as to ascend empty. The inequality of weight between the two sides of the wheel must thus continue as long as the water flows into the buckets, and of course the rotatory motion of the wheel must continue also. ery. Oct. 17. e, it clearly apitives perform, nalogous to that which, by not ted the perplexin our gramma-

. MACHINERY.

to one side of a center; and none I follow that the will always deis, so as to comn to the wheel, omes a moving ckess be so fixed. ouths upwards, er as they pafs heel on one side, f these buckets. om of the wheel, o ascend empty. the two sides of ng as the water the rotatory mo-

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1792. the effect of water on machinery. 251 But many particulars must be adverted to, before we can ascertain whether that water can be so applied, as to produce the greatest effect possible.

We fhall, for the present, lose sight of the water entirely, and, for the sake of illustration, we fhall suppose that a number of equal weights could, by some magical powers, be hooked upon the wheel at a certain place as it turns round, and taken off again in the same way below.

On this supposition we shall easily perceive, that the same weight will produce a much more powerful effect upon one part of the wheel, than upon another part of it. Let A, B, C, D. fig. 1. represent a wheel moveable upon its pivot P; and let the several dots upon one side of it, represent a number of equal weights, affixed in the manner above mentioned to one side of the wheel. I would observe:

In the *first* place, that the weights at A, and C, can have no tendency whatever to produce any motion in the wheel; because the one being perpendicularly above the pivot, and the other acting perpendicularly below it, they can have no tendency to move it to either side.

Each of the weights *a*, and *b*, however, will have a tendency to move the wheel in a certain degree; because they are placed a little towards one side of the center; but their moving power will still be small, because they act only upon a radius of small length when compared with that at B. Mathematicians have long ago ascertained, that the power of any given weight, acting on a lever, is always in proportion to the length of that lever; so that, suppovot. xi. 112 +

252 the effect of water on machinery. Oct. 17. sing the length of the lever P B to be four, and the distance P p one, the power of one pound weight, appended at B, will be as four, while that at a or b will be only as one; so that one pound at B has an equal force as four at a or b. By a similar mode of investigation, we should find that the weights went on in the same rate, from nothing at A or C, to sixteen at B; or, in other words, the aggregate power of the whole weights, if thus a pended, would be only one fourth part nearly, of what that whole aggregate weight would be, if it could all be applied at the point B only, and to no other part of the wheel. By this mode of reasoning we are led to perceive, that if, instead of making the water fall down an inclined

plain, E B, as it is usual to make it act by its impetus, we should lead it forward in the direction E A, till it came to a, where it was emptied into a bucket, in order to make the water act only by its dead weight, we fhould still lose, in this way, a considerable part of the possible power of the water, even if the buckets fhould be so contrived as to lose none of it in the course of its descent; a circumstance that can never be obviated where fixed buckets, of any construction, are employed upon a wheel of large diameter. This is so obvious as to require no illustration. Therefore, where buckets are fixed upon the wheel, the difference of power between buckets appended at equal distances from each other on the wheel, or of one bucket constantly acting at C, equal in weight to the whole, becomes much greater than the proportion here afsigned.

Oct. 17. 19. four, and the nd weight, apt at a or b will Bhas an equal r mode of ineights went on or C, to sixaggregate ponded, would be hat whole ag-I be applied at of the wheel. o perceive, that wn an inclined by its impetus, ion E A, till it 🖋 bucket, in orlead weight, we able part of the buckets fhould he course of its er be obviated in, are employ-This is so obvierefore, where e difference of qual distances ne bucket conthe whole, beon here afsign-

the effect of water on machinery. 1792. 253 . If, with a view to obviate this inconvenience, we, should think of encreasing the diameter of the great wheel, so as to make the top of it rise higher than the level of the water course, as represented by the dotted lines, the evil would be remedied, in as far as respects the upper part of the wheel; but still it operates with the same force in as far as respects the lower part of the wheel. Where this augmentation of the diameter of the wheel is even practicable therefore, by reason of the moderate height of the fall, there still must be a very great waste of water when thus applied but where the height of the fall is very great, as from fifty feet and upward, as no wheel could be made of a diameter nearly equal to this, the lofs of power that is thus incurred can scarcely admit of a calculation. . . .

From these few obvious considerations it is evident, that if we ever hope to derive the full power of a small stream of water, falling from a very greaheight, we must abandon the idea of making that water act directly on a wheel itself, and make that power be applied to the wheel, by the intervention of some other contrivance better adapted to the purpose than a single wheel in any situation ever can be.

One would suppose, that, when an apparatus of that sort had been discovered, which was equally simple in its construction as economical in its applieation, it would have been at once universally adopted. But our reasoning is here fallacious; and experience proves, that though man is eager to seize advantageous improvements when they are pointed out to him, his mind is exceedingly slow at applying the

254 the effect of water on machinery. Oct. 17. powers that are familiar to him to other purposes than those to which he has seen them applied. In proof of this, I have only to observe, that the following contrivance for raising a great weight, by means of a very small current of water, has been known to every student of physics for more than a century past, and has never, that I have heard of, been once employed for the purpose of turning machinery, or mill work of any kind; though it is perfectly well. calculated to obviate all the difficulties above stated, and to give to water, falling from a great beight, all the effect of which it is susceptible as a moving power.

Let a small wheel A, fig. 2. be fixed so as to turn upon a pivot at the height of the fall of water D, C; and another heel, exactly similar to it B, at the level of the bottom, from whence the water has a free exit; and let an endlefs chain be pafsed over these two, wheels, to which is fixed a number of buckets in the position indicated in the figure. In this way no limits can be set to the length of the chain. Let the fall be fiftyfeetor a hundred, or five hundred feet if you will, there is nothing impofsible in thus connecting the whole, and of thus deriving the full benefit of the entire weight of the whole water, without any diminution : for not one drop of water can be spilled in descending from the highest to the lowest part of the apparatus.

Let us, for the sake of illustration, suppose, that a stream of water could be commanded, so small as that it ran only a pound weight in a second of time, having a fall of fifty feet, and that the whole of this water was received into the bucket at the top, so as, by its gravity, to produce a rotatory motion of such tery. Oct. 17. other purposes emapplied. In that the followeight, by means been known to than a century d of, been once machinery, or a perfectly well. s above stated, great beight, all: a s a moving

to as to turn upwater D, C; and 3, at the level of has a free exit; over these two, if buckets in the is way no limits et the fall be fifty if you will, there etting the whole, the entire weight in ution : for not lescending from apparatus.

suppose, that a ed, so small as second of time, a whole of this at the top, so as, y motion of such 1792. the effect of water on machinery. 155 velocity as that the chain made one revolution in five minutes. On these data, let me alk what would be its force as a moving power?

Say, the half of five minutes, is two minutes and a half. In two minutes and a half there are 150 seconds; and consequently the full buckets, on one side, would, at all times, exceed the empty ones on the onposite side by 150 pounds; of course, even this small stream would act with a power equal to 150 pounds upon any machinery to which it was applied. But an ordinary mill stream, instead of one pound in a second, discharges nearly a bundred pounds weight of water in the same time. With such a stream, the power of a machine on this construction would be equal to :15,000 pounds,-a power that no strength of machinery could withstand. Where such a stream therefore could be commanded; with such a fall, it might be subdivided into a great many smaller ones, each of which would have power sufficient to turn a mill. If the height were a hundred feet, the power of the same stream would be doubled; and so on for any greater height.

Nothing can be more simple than the applying this power, so obtained, to the moving of machinery. It is only to place a vertical wheel, corresponding to the water wheel of an ordinary mill, at one side of this moveable chain, having upon it, instead of flat float boards, firm pins, or teeth, fixed in it at regular distances, to be laid hold of by others corresponding to them, made by the pins that connect the links of the chain; so that, in proportion as the chain moves, the

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the effect of water on machinery. Oct. 17. 256 wheel must be turned round with the same velocity *. In this case none of the power would be lost, because its whole force is perpetually applied at the very point of the lever (b. fig. 2d.) where it must produce its greatest effect. The apparatus is so simple, and the conclusions so indubitable, that mere inspection of the figure is sufficient to convince every person of the most moderate understanding, so that farther illustrations are perfectly needlefs. I shall only just make one remark here, which is indeed sufficiently obvious, that, were a moving power of this sort adopted, it would be as easy to apply it to a wheel placed in the top, as in the bottom of a building, or to one ip every stage of it, if necessary.

In this way may be obtained the full benefit of the greatest height of any fall of water, without losing the smallest portion of its weight as a noving power; a thing that is altogether impracticable by any other means that has ever yet been adopted. Even with regard to falls of moderate height, where a wheel could be made of such a size as to receive the water into buckets, at its full height, much power would be gained by hanging the buckets to a chain in this manner, and making the water, by this means, act always by its whole weight nearly, upon the horizontal or longest lever of the wheel, as at b fig. 2. and no where else. It was from a contemplation of the infinite force that might thus be obtained in the Highlands of Scotland, for turning machinery, that I have

• E, represents that which, with the pins h. Fig. 3d, fhows a front view of the chain, with the catch pins, b, b, and a section of the edge of the wheel at A, with its forked pins to catch the pins of the chain an it moves. inery. Oct. 17° same velocity *. d be lost, because blied at the very e it must produce is so simple, and mere inspection ce every person g, so that farther I fhall only just indeed sufficiently ver of this sort oly it to a wheel a building, or to

full benefit of the , without losing a noving power; ble by any other ted. Even with where a wheel receive the water power would be nain in this manneans, act always the horizontal or b fig. 2. and poplation of the inned in the Highnery, that I have

Fig. 3d, fhows a front d a section of the edge he pins of the chain an 1792.

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so often taken notice of the amazing advantages which that country enjoys above all others for manufactures, hy machinery; nor is this the only advantage it pofsefses in this respect, as I shall have occasion to show at some other time. While I contemplated these things, which seem never to have fallen under the observation of any other person, it will not be deemed wonderful, if I have expressed myself rather more forcibly on that subject than first they could see reason for,---many things appear paradoxical, when simply announced, which, when explained, are simple and obvious truths.

detached remark.

The above may serve for giving a general notion of the mode of applying water with advantage, for the purpose of moving machinery, where the fall is great. In another paper J shall endeavour to give some general notions respecting the application of water, as a moving power, in every country, where no kind of cascade can be commanded.

DETACHED REMARK.

TAKE care never to provoke enemies by severities of censure; yet suffer not yourself, in defence of a good cause or sentiment, to be overawed or deprefsed by the presence, frowns, or insolence, of powerful men; but persist on all occasions in the right, wich a resolution always present and calm. Be modest, yet not timorous; and be firm without rudenefs.

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*01. xi.

DDE OF HAFEZ. [TRANSLATED FROM THE PERSIAN BT SIR WILLIAM JONE Histrare, boy, a goblet bring, Hist of wine's ruby spring; Bring me cree, and bring me two, Nought but purest wine will do! It is wine, boy, that can save Pen dying lovers from the grave; Old and young alike will say, "Tis the balm that makes us gay. Wine's the sun.—The moon, sweet soul, We will call the evening how!s Bring the sun, and bring him soon, To the hoson of the moon! Dafn us with this liquid fire, It will thoughts divine inspire, And, by matter taught to glow, Let it like the waters flow! If the rose fhould fade, do, you Bid is chearfully adieu: Like rose water to each guest, Bring thy wine and make us bleat. If the nightingsle's rich throat, Cease the music of its zote; It is fit, boy, thou flouldst bring. Be not sad, whatever change O'er the busy world may tange; Harp and lute together bring, Sweetly mingling string with string ! My bright maid, unlefs it be In some dream, I cannot see: Bring the draught that will disclose Whene it was sleep first arore! Should it chance t'erpow'r my mind, Where''s the remedy 1 lind? "Ti in wine—Then, boy, supply Wine, till all my sences die 1
 TRANSLATED FROM THE PERSIAN BET SIR WILLIAM JONE H: THER, boy, 2 goblet bring, B: ic of wine's ruby spring; Bring me one, and bring me two, Nought but purest wine will do ! It is wine, boy, that can save E'en dying lovers from the grave; Old and young alike will say, 'Tis the balm that makes us gay. Wine's the sun.—The moon, sweet soul, We will call the evening bow!: Bring the sun, and bring him soon, To the bosom of the moon! Dafn us with this liquid fire, It will thoughts divine inspire, And, by nature tanght to glow, Let it like the waters flow! If the rose fhould fade, do, you Bid it chearfully adieu: Like rose water to each guest, Bring the water to each guest, It is fit, boy, thou thouldst bring Cups that will will music ring. Be not sad, whatever change O'er the buy world may tange; Harp and lute together bring, Sweetly mingling string with string ! My bright mand, unlefs it be In some dram, I cannot tase : Bring the draught that will disclose Whence It was sleep first arore ! Should it chance t'erprow'r my mind, Wher's the remedy 1 find?
TRANSLATED FROM THE PERSIAN BT SIR WILLIAM JONEH:THER, boy, a goblet bring, Be it of wine's ruby spring; Bring me one, and bring me two, Nought but purest wine will do!It is wine, boy, that can save E'en dying lovers from the grave; Old and young alike will say, "Tis the balm that makes us gay.Wine's the sun.—The moon, sweet soul, We will call the evening bowl: Bring the sun, and bring him soon, To the bosom of the moos!Dafn us with this liquid fire, It will thoughts divine inspire, And, by nature tanght to glowy, Let it like the waters flow!If the rose fhould fade, do you Bid it chearfully adieu: Like rose water to each guest, Bring thy wine and make us bleet.If the nightingale's rich throat, Cesse the music of its zote; It is fit, boy, thou thouldst bring Cups that will will with runke ring.Be not sad, whatever change O'er the busy world may tange; Harp and lute together bring, Sweetly mingling string with string !My brightmaid, unlefs it be In some dream, I cannot tee : Bring the draught that will disclose Whence it was sleep first arcoe!Should it chance t'e'erpow'r my mind, Wher's the remedy I mid? This in wine,—Then, boy, supply
Harnen, boy, a goblet bring, He it of wine's ruby spring ; Bring me one, and bring me two, Nought but purest wine will do ! It is wine, boy, that can save E'en dying lowers from the grave; Old and young alike will say, "Tis the balm that makes us gay. Wine's the sun.—The moon, sweet soul, We will call the evening bowl : Bring the sun, and bring him soon, To the bosom of the moos ! Dafh us with this liquid fire, It will thoughts divine inspire, And, by nature taught te gbw, Let it like the waters flow ! If the rose flould fade, do you Bid it chearfully adieu : Like rose water to each guest, Bring thy wine and make us bleat. If the nightingale's rich throat, Cease the music of its zote; It is fit, foy, thou flouldat bring Cups that will with music ring. Be not sad, whatever chaige O'er the busy world may tange ; Harp and lute together bring, Sweetly mingling string with string ! My brightmaid, unleis is be In some dream, I cannot tee : Bring the draught that will disclose Whence it was sleep first arcre !
 Be it of wine's ruby spring; Bring me ore, and bring me two, Wought but purest wine will do? It is wine, boy, that can save B'en dying lovers from the grave; Old and young alike will say, 'Tis the balm that makes us gay. Wine's the sun. — The moon, sweet soul, We will call the evening bowl: Bring the sun, and bring him soon, To the bosom of the moos ? Dafn us with this liquid fire, It will thoughts divine inspire, And, by nature taught to glow, Let it like the waters flow l If the rose flould fade, do, you Bid it chearfolly adieu: Like rose water to each guest, Bring thy wine and make us blest. If the nightingale's rich throat, Cease the music of its zote; It is fit, boy, thou thouldst bring Cups that will with rausic ring. Be not sad, whatever change O'er the buy world may range; Harp and lute together bring, Sweetly mingling string with string l My bright maid, unlefs it be In some dream, I cannot tage: Bring the draught that will disclore Whene's the remedy 1 find ? Tis in wine. —Then, boy, supply
 Be it of wine's ruby spring ; Bring me or.e., and bring me two, Nought but purest wine will do ! It is wine, boy, that can save E'en dying lowers from the grave; Old and young alike will say, 'T is the balm that makes us gay. Wine's the sun.—The moon, sweet soul, We will call the evening bowl: Bring the sun, and bring him soon, To the hosom of the moon? Dafh us with this liquid fire, It will thoughts divine inspire, And, by nature taught to glow, Let it like the waters flow ! If the rose flowld fade, do you Bid it chearfully adieu: Like rose water to each guest, Bring thy wine and make us blest. If the nightingale's rich throat, Cease the music of its zote; It is fit, boy, thou (houldst bring Cups that will with rausic ring. Be not sad, whatever change O'er the busy world may tange; Harp and lute together bring, Sweetly mingling string with string ! My bright maid, unlefs is the In some dream, I cannot tee: Bring the draught that will disclose Whence it was sleep first arcee! Should it chance t's erprow'r my mind, Wher's the remedy I mid? This in wine.—Then, boy, supply
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Bring me one, and bring me two, Nought but purest wine will do ! It is wine, boy, that can save E'en dying lovers from the grave; Old and young alike will say, 'Tis the balm that makes us gay. Wine's the sun. — The moon, sweet soul, We will call the evening bowl: Bring the sun, and bring him soon, To the bosom of the moon ! Dafn us with this liquid fire, It will thoughts divine inspire, And, by nature taught to gbw, Let it like the waters flow ! If the rose fhould fade, do you Bid it chearfully adieu : Like rose water to each guest, Bring thy wine and make us bleet. If the nightingale's rich throat, Cease the music of its zote; It is ft, boy, thou fhouldst bring Cups that will with rausic ring. Be not sad, whatever change O'er the busy world may tange; Harp and lute together bring, Sweetly mingling string with string ! My bright maid, unlefs it be In some dream, I cannot see : Bring the draught that will disclose Whence It was sleep first arcre! Should it chance t's'erpow'r my mind, Where's the remedy 1 find ? 'Tis in wine.—Then, boy, supply
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Cease the music of its mote; It is fit, boy, thou (houldst bring Cups that wild with music ring. Be not sad, whatever change O'er the busy world may tange; Harp and luce together bring, Sweetly mingling string with string ! My bright maid, unlefs it be In some dream, I cannot see: Bring the draught that will disclose Whence it was sleep first arore! Should it chance to 'erpow'r my mind, Where's the remedy 1 find ? 'This in wineThen, boy, supply
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O'er the busy world may range ; Harp and lute together bring, Sweetly mingling string with string ! My bright maid, unlefs it be In some dream, I cannot see : Bring the draught that will disclose Whence it was sleep first arore ! Should it chance to 'erpow'r my mind, Where's the remedy 1 find ? "Tis in wine Then, boy, supply
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Where's the remedy I find? "Tis in wineThen, boy, supply
Where's the remedy I find ? "Tis in wine Then, boy, supply
"Tis in wine Then, boy, supply
Wine, till all my senses die l

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		1793 poetry.	265
		Unto Hafez, boy, do you	
		Instant bring a cup or two :	
		Bring them: for the wine shall flow, Whether it be law or no!	
		Whether it be law of no.	
IAM JONES.			-
		THE LAPLANDER.	
•	1	A SONNET BY MRS CHARLOTTE SMITH.	
,		THE shiv'ring native, who, by Tenglio's side, Beholds, with fond regret, the parting light	
		Sink far away, beneath the dark'ning tide,	
4		And leave him to long months of dreary night;	
4	- b	Yet knows, that, springing from the eastern wave,	
•	1.2	The sun's glad beams thall re-illume his way,	
	1	And, from the snows secur'd, within his cave,	
		He waits in patient hope returning day.	
		Not so the suff'rer feels who, o'er the waste	
		Of joyless life; is desuin'd to deplore	
		Foud love forgotten, ender friendflip past, Which, once extinguish'd, can revive no more :	
	1	O'er the blank void he looks with hopelefs pain ;	
		For him those beams of heaven fh. 3 never thine again.	
13	1	Song.	
		For the Bee.	
		FLY no more, cruel fair, but be kind and relenting,	
•		Enough has been shewn of contempt and disdain,	
		Taste at length the superior delight of consenting, For 'tis much nobler joy to give pleasure than pain.	
		Would you charm men of sense, and engage their addresses,	
	1	My Chloe of pride, as of painting beware ; For beauty consists more in minds, than in faces,	· · ·
		And the maid's almost ugly, that only is fair.	
	F	and the second	-
		BPIGRAM.	
	L ²	For the Bee,	
		SIS JIMERACK round his hal', hangs all things odd,	
		An embalm'd pismire, and a straw stuff'd cod;	
1 1 4		Alike to things antique his taste inclines,	
	1	Old Roman fhields, maim'd heads, and rusty coins;	
		But if the oldest. oddest thing in life To these you'd hang, Sir Jimerack,-hang your wife:	
		. To mere las a range on lunchered - work last and	

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Oct. 17.

A NEW KIND OF FENCE DESCRIBED.

a new kind of fence.

 F_{ENCES} about land are a very expensive and troublesome article to the farmer; whatever, therefore, tends to diminifh this expence, and to render the feaces more complete than those now in use, will be accounted a valuable improvement.

There are two principal descriptions of fences; walls and hedges. Walls have the advantage over hedges, in being an immediate fence, as soon as they are made; but they are expensive, and unlefs made c⁵ the best stone and lime, perifhable.

Hedges, on the other hand, cost lefs money at first, and when they are once completed, they are very durable; but they require to be long nursed, and carefully tended when young, so that it is many years before the person who makes them can derive any material benefit from them. It thus happens that they are too often neglected when young; and if this be the case, it is scarcely possible to make them ever afterward a complete fance at all.⁷

I am now to describe a kind of hedge which can be reared at a small expence—is a fence as soon as made, --will continue perfect and firm for a great length of time, without needing any repairs ;—and, without rambling too much to damage the crops around it, will afford a greater quantity of bruth for fuel, or other purposes, than any other kind of hedge now in use.

To effect all these purposes, it will be necessary to prepare, usar the spot where the fence is want. , a piece of rich clean ground, for a nursery, "some years before the hedge is intended to be planted; procure, in the month of October or November, a sufficient quantity of cuttings of the talsam poplar;--wood of the second yea.'s growth is

Oct. 17.

BED.

ve and troubletherefore, tends the fences more ccounted a valu-

f fences; walls over hedges, in are made ; but best stone and

ney at first, and e very durable ; carefully tended fore the person nefit from them. neglected when cely possible to ice at all."

which can be soon as made, length of time, ut rambling too afford a greater , than any other

e necessary to wanted, a piece ears before the n the month of of cuttings of ca.'s growth is 1792.

a new kina of fence. 261 best: after digging the ground properly, let these be planted in a nursury in rows, one foot distant from each other, and the plants six inches apart in the rows. Hoe them, and keep them clean, till the plants have attained a proper size, which may be in three or four years. If the soil has been good, the plants in that time will be eight or ten feet high, and the thickness of a man's thumb, at the height of of four feet, which I should reckon a proper size for the purpose intended.

When you have, by this means, or otherwise, obtained a proper supply of plants, lay out your fields as you intend them, the winter before you mean to plant; and if it be a plain field, plough up a narrow ridge where you intend to plant your hedge, or dig it with the spade, where the plough cannot go; give it a winter and spring fallow, to clean it from weeds, and loosen the soil. Dung this small ridge very thoroughly; and as the ridge needs not exceed six or eight feet in breadth, a very little dung will go a great way ; and sow it with turnips. Hoe them properly, and keep the ground clean. When they are taken off in November, the ground will be in excellent order for planting.

When the ground is ready, take up your poplar plants ; prune off the tops, at the height of six feet from the ground, and, having trimmed the roots, plant a row of them, by line, near the middle of the prepared ridge, at. the distance of not more than one foot from each other, or lefs, if the roots will permit. Let these all slope in one direction, as in the plate fig. 4. parallel to each other, in the direction of the hedge, as at A B fig. 4. The ground plan is represented in fig. 5. where the same plants are represented ;-those sloping to the right hand from A to B. When this row is completed thus, stretch the line parallel to the former, at the distance of fifteen or sisteen

262 a new kind of fence. Oct. 17, inches from it, as in the dotted line, D E fig. 5. and plant in that line another row, sloping the reverse way, as from D to E. fig. 4. When these two lines are completed, the fence, when viewed sideways, will have the appearance represented at C C D B fig. 4. This kind of rail, however, is not interlaced, as in a bafket; but the two rows are kept quite distinct; as must appear evident by inspection of the ground plan fig. 5. A B represents the ground plan of those that slope from left to right; and D E the plan of those that slope the reverse way, the tops of which meet at C C fig. 4.

These two rows, however, though distant from each other at the bottom, are made to incline inward, so as to approach each other at the top, as in fig. 6. which represents an end view of the fence when completed.

To complete the whole, let a thin slit of deal, like a tile lath, be stretched along the top, as from C to C fig. 4. so as that the stoops on each side of it, come close to it as in fig. 4. the whole being bound by means of a straw rope twisted round, this lath and the top of the stoops; and the fkeleton of your fence is completed. In this state it afsumes the appearance, and is an equally good fence as a rail would be.

To render it complete, however, you must take care, after one side of the fence is finished, to lay the earth that is to be in the interval between the two rows perfectly smooth, and to plant, with a dibble, a row of sweet briar plants, as from a to b fig. 5. These plants should not be more than two years of age; and their tops, at the time of planting, should be cut over quite close by the ground. This will make them push out with great vigour, so as quickly to fill up the whole interval between the plants, and to make a hedge as close as could be wished. If the ground be good, and the operations properly Oct. 17. E fig. 5. and plant verse way, as from are completed, the the appearance reof rail, however, is the two rows are dent by inspection resents the ground t; and D E the plan ops of which meet at

istant from each one inward, so as to fig. 6. which repreompleted.

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ou must take care, to lay the earth that two rows perfectly row of sweet briar plants fhould not heir tops, at the time clofe by the ground. In great vigour, so terval between the fe as could be withoperations properly **1792.** a new kind of fence. 263 conducted, some of these sweet briars will make thoots of four fect in length the first year.

It will be necessary to be at some pains to pull out by hand, the first year, any weeds that may spring up between the rows; and to hoe down those that may spring up on either side.

The poplars will make fhoots equally vigorous as the sweet briar; so that the first year some of the young fhoots will be from two to three feet in height. Any fhoots that spring out from the stem will rise up perpendicularly, so as to form a secondary kind of ribs. These, if laid in by the hand once a-year, so as to bring them on the inside of the original stems, will in time acquire strength, as the original ribs do, so as to resist any force. The sweet briar, which, of itself, would fall dangling to one side, is thus kept firm and upright in the center ; the floots which puff through between the ribs, ought to be cut off with a hedge theers once a-year. The hedge being thus wider at the bottom than the top, will always continue green and vige ous. The poplars will gradually afsume the size and strength of trees, so as to be utterly impenetrable by any force. At top they will send out a vast profusion of vigorous floots, not lefs than three or four teet high, and of proportional thickness, each year ; so that if these tops be lopped off every second year, they will afford an immense profusion of brush wood, which may be employed as fuel, or for any other purpose wanted.

After the first year, the crofs rail at the top will be no longer wanted. Indeed, where cattle are not to be put into the field the first year, it is not necessary at all. Nor is it advisable to put cattle into the field the first year; for although it may be a fence, yet as the fhoots of the poplar are smooth, and the leaf liked by cattle, they will brouse upon it, and render the fence lefs sightly than it otherwise would be.

Oct. 17. to correspondents. 264 After the second year, however, the sweet briar will cover the whole so effectually, as to render this perfectly safe from all attacks.

* I am convinced, that, were truncheons of poplar, of a proper size, cut over and planted without roots, they would succeed perfectly well ; and the fence could thus be made at a much smaller expence, than by rooted plants; but never having experienced this myself, I only offer it as matter of opinion. Any kind of straight fhooting willow could be employed for the same purpose in a rich soil.

Fig. 6. represents an end view of the hedge, in which A is the hedge new planted, before it has set out any shoots. B, the same hedge after it has been planted a year or two, and has shot out some strong shoots. C, the same hedge when farther grown, the top fhoots cut off, and the sides properly trimmed.

TO CORRESPONDENTS.

THE hints by Curiosus fall be taken into consideration.

The favour by an Old Correspondent is revised, and thall have a place with the first conve lience. The communication by Mischrontes will appear in next number if pof-

The communication by Milebroates will appear in next humber if pol-aible; and here this altercation ends. The Editor, though grateful for the good intentions of Tom Idle, re-grets that he flowed have taken the trouble of transcribing such a long story which cannot suit the Lee; as it has been relared in almost every periodical publication in Britain. Republications are only here admitted when their merit is conspicuous, or where they are but little known. Mr Wright's acceptable communication is thankfully received, and that

be attended to in due time; some of the cocoons thall be forwarded the firs: opportunity.

The Editor ceturns thanks for the anunymous account of the interment of Charles 1. It would have been more satisfactory if some notice had been given where the MSS. from whence it has been extracted, has been preserved

The anecdote of Bathylius, though pretty generally known among claf-sical scholars, fhall have a place when room can be spared for it.

Many acknewledgements are emitted for want of room.

Oct. 17. sweet briar will er this perfectly

heons of poplar, thout roots, they ce could thus be rooted plants; , I only offer it ght fhooting wilurpose in a rich

hedge, in which has set out any en planted a year ots. C, the same cut off, and the

on. nd fhall have a place

n next number if pof-

ans of Tom Idie, re-scribing such a long lared in almost every re only here admitted are but little known. ally received, and thall thall be forwarded the

ount of the interment y if some notice had a extracted, has been

ly known among clafpated for it.

98. THE BEE, O R LITERARY WEEKLY INTELLIGENCER, WEDNESDAY, OCTOBER 24 1792. THE OUISTITI, WESTILL, OR CAGVI.

THIS is one of the smallest of the monkey tribe, its head and body not exceeding seven inches in length: its tail is long and bufly, and marked with alternate rings of black and ash colour : its face is naked, of a swarthy field colour : cars large, and so disposed, as to bear a near resemblance to that fashion of female drefs called queen Mary's ruff: its body is beautifully marked with dufky, all coloured, and reddish bars : its nails are fharp, and its fingers like those of a squirrel. 4

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VOL. XI.

266 on personal pronouns. Oct. 24. It is a native of Brazil; feed, on fruits, vegetables, insects, and snails; and is fond of fifh.

The ouistiti is one of the few classes of the monkey kind which have been known ever to breed in Europe. Mr Edwards says, that it produced young ones in Portngal, which were at first extremely ugly, having hardly any hair upon their bodies. They adhered closely to the teats of their mother; and when grown a little larger, fixed themselves upon her back, from which fhe could not easily disengage them without rubbing them off against a wall. Upon these occasions, the male, who discovers a great fondnels for them, either compels the female to take them up again, or allows them to mount upon his own back to relieve her.

As this is one of the smallest and most beautiful of the monkey tribe, it is frequently kept in Portugal as a pet in families; but it is even there tender, and impatient of cold.

GRAMMATICAL DISQUISITIONS. Continued from p. 250.

OTHER and OTHERS.

ENGLISH grammarians have likewise been at a lofs what to make of the words other and others. Dr Johnson, with other grammarians, has clafsed them among pronouns, and calls others, the plural of other, for no better reason, seemingly, than that the word others has an s final, which is the usual plural termiuation of our nouns, though this rule be not observed in our pronouns. By the same mode of arguing, Oct. 24. its, vegetables, \$792.

es of the monver to breed in roduced young extremely ugbodies. They mother; and selves upon her disengage them l. Upon these great fondnels take them up his own back

most beautiful kept in Portun there tender,

IONS.

been at a loss and others. Dr as classed them plural of other, that the word al plural termine not observed de of arguing,

bers thould be the plural of ber, yours the plural of your, and ours of our. A very little attention, however, would have been sufficient to convince Dr Johnson, that the word other, has, in general, a plural meaning, as well as others. For we may say, " other men went," or "other bouses were sold," Sc. In all which, and similar cases, the word other has an evident relation to plurality. The truth, however, seems to be, that the word other, is not a pronour, but merely a definitive; which, like other definitives, must always be accompanied by the noun which it serves to define ; and it is one of those definitives that relate to plurality, like many others. If, therefore, we must have a singular to this word, that singular can doubtlefs be nothing else than an other ; for we say " another man came," or " other men came," exactly denoting the same idea, the one singular, and the other plural. These are, therefore, alike definitives of the same kind. Others, is similar in power to those words we have above called pronouns possefsive ; see table p. 244.

on personal pronouns.

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SELF and SELVES.

Grammarians have been still more at a lofs with regard to the word *sclf*, with its plural *sclves*; because of some anomalies that have arisen in the English language, from a deficiency in the inflection of some of our pronouns, that now require to be explained.

The word self, denotes an object considered in its totality, without discrimination of parts. It has been universally accounted a pronoun; though I think there is great reason to doubt if it strictly belongs to this clafs of words. We fhall try to ascertain its rank in grammar by the following analysis.

an on the

268 on personal pronouns. Oct. 24. When we say, "I cut my band," we denote the particular pars of the body that was cut. But, if we wilhed to express the circufustance GENERALLY, we would say, "I cut my self ;" Here it is plain the word band, in a grammatical sense, is precisely of the same nature with the word self ;—the first only denoting a particular member, and the last denoting the object in general, without specification of parts. But it never yet has been thought that band could be reckoned a pronoun; it has been universally called a noun. Why then should self be placed in another clafs ?

I can see no other reason for this distinction, unlefs it be, that, as self seldom appears in language without being conjoined with a definitive pronoun, it has been thought to be itself a pronoun also. We shall find, however, that the word band is, on many occasions, as necefsarily accompanied with the definitive as the other. In the example above given, the definitive my, equally accompanies both; and whereever a particular member is represented as acting, or being acted upon, the name of that member must be as necefsarily accompanied with its definitive, to refer it to the whole of which it is a part, as if that whole were represented, without specification of parts, by the word self.

It is indeed true, that when we express a part, we can more easily adopt the nomial definitive, and avoid that of the pronoun, than when we mean to denote the whole; because we have more frequently occasion to identify the whole to which the part belongs, by repeating its name, than when we express the whole.

Oct. 24. we denote the at. But, if we ENERALLY, WC it is plain the is precisely of -the first only the last denospecification of ught that band een universally f be placed in.

distinction, unrs in language ive pronoun, it. oun also. We nd is, on many with the definibove given, the th ; and whereed as acting, or ember must be efinitive, to repart, as if that specification of

press a part, we litive, and avoid mean to denote uently occasion art belongs, by prefs the whole.

on personal pronouns. 1792. For example, we more readily say, James's band, than James's self, for a very obvious reason, viz. because the phrase James's band, is, when taken altogether, only one noun ; the definitive James's, being only necessary to identify the word band. But the whole individual is clearly expressed by the single word James alone; and therefore the word self is here unnecessary, unless where some particular cortrast is implied, or a particular emphasis be given to the phrase.

These considerations, with others that are sufficiently obvious in pursuing this mode of reasoning, satisfy me, that the word self is a noun, in the strictest sense of the word, and should be ranked in the same class with the word band; but that, as it exprefses the object generally, the defining noun alone, can, on many occasions, denote the idea, without obliging us to repeat this particular word; but that this definitive must always be accompanied by the particular object it serves to identify, when a particular part or member only is expressed. Where we wish to express that general idea, without appropriating it to particulars, we can equally make use of either of these words as a nominative to a verb, without being accompanied by any sort of definitive : Thus,

" A hand is the most useful member of the human body ;" or, " Self, is ever interesting to man."

We have seen above the reason why those nouns that serve to denote particular parts or members of bodies, are usually defined by the nomial definitive; as also why the general word self, so often assumes the pronomial definitive in language. It now only

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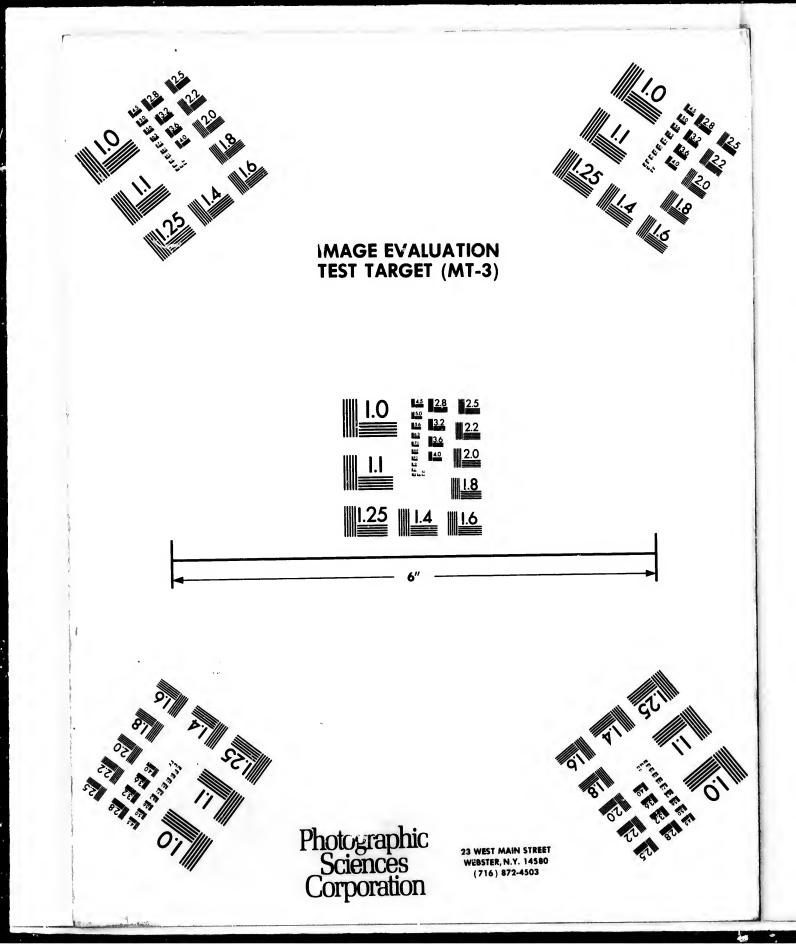
270 on personal pronouns. Oct. 24. remains, that we should point out the cause of some anomalies that are observable in the Eugliss langunge, with regard to the composition of that word self with its definitive.

We find, that in the pronouns of the first and second persons, the word self, with its plural selves, regularly assumes the proper definitive pronoun in composition. Thus we say MY-self, rejecting, alike, the accusative me and the possessive mine; for we can neither say me-self, nor mine-self*. In like manner we take, in the plural, the proper definitive our, and say our-selves; and not us-selves, or ours-selves. The same rule is observed in regard to the pronoun of the second person; for we say, thy-self, using the proper definitive, and not thee-self, or thine-self; and your-selves, and not you-self, or yours-selves. In all these cases, our pronoun admits of a distinct word for the definitive, different from either the accusative or the possessive, and therefore no difficulty occurs. But when we come to the pronoun of the third person, we are at a stand ; for, with regard to that pronoun, we find, that, in the masculine gender, there is no particular word appropriated as a definitive +, the word bis being obviously the possessive only, and not the definitive. In this embarrafsment, what shall be done? No alternative seems to remain, but either to employ in this case the accusative HIM, by way of a definitive, or the possefsive HIS. Custom has established the first, and we say bim-self, and not bis-self. Some critics, however, observing that the word bis, has been for-

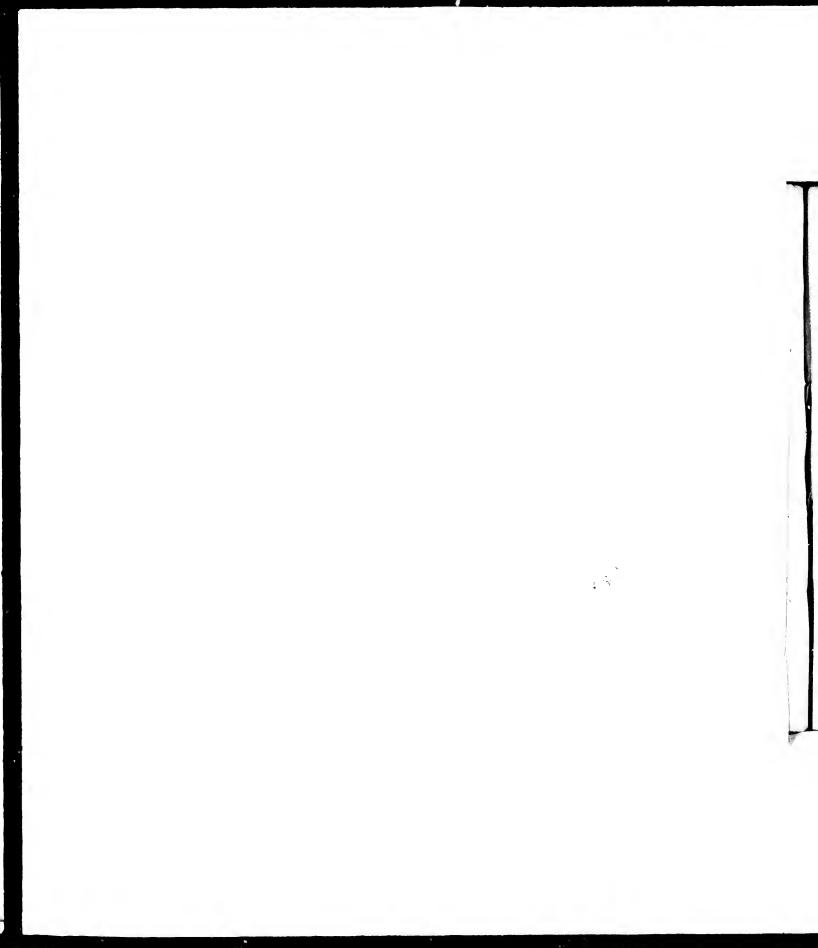
· See table, r. 244. + Ibid.

Oct. 24. cause of some Englifi languif that word self

the first and seolural selves, repronoun in comcting, alike, the for we can neilike manner we initive our, and or ours-selves. to the pronoun -self, using the thine-self; and s-selves. In all a distinct word r the accusative ifficulty occurs. of the third perard to that progender, there is definitive +, the only, and not the at fhall be done? ither to employ y of a definitive, blifhed the first, Some critics, is, has been for-







1792. on personal pronouns. 271 ceed on other occasions, to perform the office of a definitive, have contended that it thould do so here also; and insist that we fhould write bis-self, and not bim-self. This, however, is only adopting one imperfection in place of another. Had they determined to make any change, it would have been better to have at once devised a new word for the definitive pronoun of this gender, which would have removed the difficulty complained of, and several others they have not taken notice of.

In the feminine gender, we also find that the accusative and definitive are expressed by the same word her. And here, according to the general analogy, it would seem that the word ber should be reckoned, in strict propriety, the definitive, rather than the accusative ; yet as this word is employed in both ways, we are at liberty to view the word ber as either; and it is here employed properly as the definitive. But as there is no proper definitive for the neuter gender, the word its being properly the possessive, we have, as in the masculine gender, adopted the accusative in its stead, and say it-self. Thus it has happened, that in two of the three genders of the singular number of this pronoun, we have adopted the accusative instead of the definitive, in composition with the word self. And probably with a view to correspond with these, rather than from any other cause, we have adopted THEM, the accusative plural, instead of the proper definitive THEIR, and say themselves, instead of their-selves, which is, without a doubt, the regular word, according to strict analogy.

accuword logy, oned, e acvays, her; tive. enter , we ccuhapngu-

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on personal pronouns. Oct. 24.

Own, as well as self, has been usually classed among pronouns; and though we cannot admit it into this clafs, and though it be also very often connected with self, it is yet, in its grammatical characteristics, a good deal different from it. Self, we have seen, is to be considered, in strict propriety, as a noun; own, on the contrary, is merely a definitive; and, as such, it must in all cases be connected with some noun which it serves to define.

Own.

We have seen above, that all those nouns which are names of the parts only of any object, stand in meed of particular definitives to limit their genoral meaning, and make that meaning particular. Among these definitives, own comes in as an auxiliary to give them greater force and energy. Thus, in the phrase, "I cut my hand," the definitive my fixes the meaning of the word band. But it acquires yet more force and energy, by adding the auxiliary definitive, 'own, "I cut my own hand" This is the precise idea denoted by the word own, on all occasions. THE, THAT, THESE, THOSE.

These four words have also, by many, been clafsed among pronouns, though they more properly belong to the elafs of definitives. Dr Johnson, who seems to have considered grammar, especially Englifh grammar, as below his notice, though he was under the necefsity of writing upon that subject, has been pleased to adopt the idea of their being pronouns, without reserve; and, in comformity with this idea, has called *these* the plural of *this*, and *those* the plural of *that*.

Oct. 24.

ly clafsed among mit it into this a connected with haracteristics, a e have seen, is to a noun; own, on and, as such, it with some noun

se nouns which object, stand in it their general particular. An as an auxiliary ergy. Thus, in efinitive my fixes t it acquires yet he auxiliary defid" This is the n, on all occasions.

hany, been clafsed properly belong son, who seems to y English grame was under the ct, has been plea. pronouus, withwith this idea, has base the plural of 1792. on personal pronouns.

It is indeed true that this and that, never can be employed as definitives along with nouns denoting plurality, and that there and those always do denote plurality. But that there is no greater similarity between the idea conveyed by the word this, and that of the word these, than there is between the word this and those; and likewise that there is no greater affinity between that and those, than between that and these, is so obvious, as to require little illustration. This, denotes a single object, either at hand, or that has been just mentioned; and that a single object at some greater distance, as opposed to it; these and those both denote plurality at a distance, the one more, the other lefs remote, as contrasted with each other.

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It is indeed true, that from a defect in the Englif dialect of our language, though not in the Scottifb dialect, the word these is obliged to perform a double office, by denoting a plurality at band, as well as at a distance, and therefore it becomes equivalent alike to this and that. But in the Scottifh dialect that ambiguity is avoided. For,

This denotes a single object, and at hand, or very near. Thir a plurality of objects That a single object, and

These pronounced these a plurality of objects, fat a distance.

Those, in both cases, denoting another clafs of distant objects as contrasted with these, as in the following example.

"This stone is heavy, (weighing or touching the stone,) but that stone, pointing to one at a distance, is more valuable. This apples (pointing to, or touching a quantity at hand) are sweet; but these are vol. xi. M M †

letter from Isabella to Albert. Oct. 24-274 more beautiful (pointing to another quantity at a distance,) though those are more numerous, pointing to another quantity at a greater distance."

Observe, that these words, like all the definitives derived immediately from nouns, are obliged to perform the double office of definitives, and what we have called possessives. Thus we say, " this house is finer than that, or that house," either adding the noun defined, or suppressing it, as suits our fancy, exactly in the same way as we would say,

James's bouse is finer than Jobn's, or Jobn's bouse.

From the foregoing observations, we perceive, that the personal pronouns, in all European languages, both ancient and modern, are in many respects defective; and that many words have been called pronouns, which are not, in strict propriety, entitled to that name; and many others are forced to perform various offices, so nearly allied to each other in some cases, that they have not been distinguished, which has produced much confusion in our grammatical arrangements. We are enabled farther to perceive, that, in a language like the English, where every thing relating to the gender of nouns is denoted by the pronouns only, a few additions to this important clafs of words, would be productive of great energy, elegance, and perspicuity in that language.

LETTERS FROM ISABELLA TO ALBERT. LETTER SECOND.

. . .

1. 10 E A THOUSAND, thousand thanks, my dear Albert, for your kind letter ! O! if I could but hope that my vet. Oct. 24. uantity at a disous, pointing to

all the definis, are obliged to es, and what we y, "*this* house is adding the noun ar fancy, exactly

John's bouse.

we perceive, that opean languages, ity respects defecbeen called propriety, entitled to orced to perform ach other in some inguished, which r grammatical arther to perceive, lith, where every ans is denoted by to this important e of great energy, inguage.

TO ALBERT.

y dear Albert, for but hope that my-

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1792. *letter from Isabella to Albert.* 275 letters could afford you the hundredth part of the pleasure yours give to me, I should write to you every day, and every hour that I could command. But what have I to communicate, save the childish prattle of one who knows stothing? You are good, very good, to be pleased with them. How flattering is it to me to be thus assured that I hold so near a place in your affections ! for well I know it is that partiality alone which pleases.

You ask how I spend my time here. I conform exactly to the rules of the family in every respect. Our chief businefs is work; but we read a little, and play a little, and converse a great deal on what we have read. One of us, for I already reckon myself one of the family, acts the housewife week about. My turn, for the first time, is to be next week; and I promise myself much pleasure in the tafk ;- for, though I am a novice, yet the servants here are all so obliging; and Mrs Drury, and my young companions are so cordially desirous of pleasing me, that I shall readily find advice whenever I am at a lofs; and the hope of rendering myself of some importance will animate me. I shall be anxious to do better than they expect, without fear of being chid if I should be a little wrong; and I have often experienced that that kind of anxiety where hope predominates, is the most pleasing of all sensations.

Our parlour, through the whole day, looks very like a school room; Mrs D. is usually with us; and we are all as busy as can be, about one kind of work or other. No tafk is afsigned to us; but, in

letter from Isabella to Albert. Oct. 24. 276 general, we stint ourselves to have such a thing finished by a certain time; and we are as eager to accomplish that as possible. Mrs D. enters into conversation with us on every subject, and listens to our remarks on any book we are reading, or the incidents that occur, directing our judgement rather by mild hints than formal advices, wherever the sees us wrong. By this means her daughters have acquired a habit of thinking justly on most subjects, that others of their age seldom possels. I feel this; I feel my own wants when compared with them; but by attention to what falls from either her or them, I hope, in my turn, to become wise enough to be able to make you be pleased with something else than the mere innocence of my prattle. That you may have some idea of the nature of this small female cotterie, (you know I learnt this word from yourself,) I fhall endeavour to recollect some of our yesterday's. conversation.

" My dear," said Mrs D. to me, with her usual gentlenefs and imprefsive manner, " this house you will find is a very unfafhionable place. Instead of gadding about through the whole country after amusement, you here find us continually at work; and busy from day to day, as if our sustenance depended on the labour of our hands. I dare say you are such surprised at this, though I am happy to see you fall into our way with much more ease than I could have expected. I thall be glad if you continue to do so; for I am so pleased with your ingenuous candour and goodnefs of heart, that I begin to feel myself nearly as much interested in your wel-

Oct. 24: rt. such a thing fias eager to acenters into con-, and listens to reading, or the adgement rather berever fhe sees. ghters have ac-1 most subjects, is. I feel this; with them; but er her or them, nough to be able ing else than the it you may have female cotterie, om yourself,) I our yesterday's

he, with her uher, " this house place. Instead of country after ally at work; and tenance dependdare say you are im happy to see more case than I lad if you contiith your ingenuthat I begin to ted in your wel1793. letter from Isabella to Albert. 277. fare as in that of my own daughters; and were I not convinced that the acquiring a habit of industry at an early period of life, was of the utmost consequence to female happines, believe me, I never should have bestowed half the pains about it I have done.

" If we were all certain that we fould die young, I should not have thought this matter of a great importance; for at an early period of life our minds are so volatile and flighty,-there are so many new objects to attract our attention,-and nature has attached such power to the charms of youth,-and others are then so much disposed to bear with follies, and impertinencies from us, as to make life pais very smoothly on at that period, even where no durable fund, or sources of amusement have been prepared. But when years steal on, the world will no longer tolerate girlish impertinenc'es; the adulation which youth. and beauty obtain, begins to subside ; and amusements of another sort become necessary even in the prime of life. But when old age approaches, a woman who has not accustomed herself to find amusement in work of one sort or other, becomes the most uncomfortable being imaginable. She is no longer able to partake in active amusements abroad; the is deserted at heme; solitude becomes a burden fhe cannot support ; and the has scarcely an alternative left, but either to betake herself to the card table or the closet."

I fundhered at this recital. "You seem to be startled, my dear, at this flocking description; but be not afraid, there is no necessity for being reduced

letter from Isabella to Albert. Oct. 24. 278 to this deplorable dilemma'; and I hope you will never experience that wearinefs which leads to it; but you ought to observe how difficult it is to avoid it; unlefs it be by the help of that endlefs and innocent amusement, work. " We all hope to be married one time or other; and if so, in the natural course of things, a woman sometimes must be confined to the house, and always ought to take pleasure in home; but if she has no resource for amusement, how can that be? and without taking pleasure in female work, and domestic concerns, how can home be pleasing ?---- A man has generally his businefs to attend. Few hufbands can either afford to keep in their family idle persons to furnish amusement for their wives; or if they could afford it, would they like to have them there ?- A woman; therefore, finds herself, soon after marriage, in a new situation, in which solitude, to a certain degree, must be experienced. If the has been in the custom of taking pleasure in work, the finds abundance of it to employ her; and the has the satisfaction of contriving something new for the convenience of her family, without incurring unnecessary expence ; and often she has the pleasure of obliging her husband by presenting him with some little thing done by ber own band, as a mark of her attention to his convenience or taste. This is, in general, the surest means of procuring reciprocal attachment from him. You cannot, my dear, at your time of life, form an idea of the domestic pleasure that such triffing attentions produce." And here, my Albert, had you seen with what a gentle suffusion her eyes were filled on

Oct. 24. bert. [hope you will nich leads to it; ult it is to avoid lefs and innocent be married one atural course of e confined to the easure in home; sement, how can asure in female w can home be his business to afford to keep in 1 amusement for d it, would they omán; therefore, in a new situadegree, must be he custom of taundance of it to faction of contrience of her famixpence; and ofg her hufband by ning done by ber n to his convenithe surest means from him. You life, form an idea triffing attentions t, had you seen res were filled on

I could not help being struck with these remarks, which I found had not occurred to Mrs D. now for the first time; for her whole conduct discovers that the has been actuated on every occasion by these principles; and the is herself a living example of the justnefs of her own maxims. I tried to make some acknowledgements for her goodnefs, for speaking so kindly to me. She smiled at my aukward efforts, for my mind was so imprefsed with a conviction that the would perceive I had her own conduct in my eye, that I stammered, and hesitated at every word. She hastened to relieve me.

"You would surely like, my dear, to be beautiful," said the in a more lively manner; " and what would you give if I thould teach you the secret of becoming so?" 'That would be a discovery indeed,' said I, recovering myself. "Believe me," said the, " it is not such a difficult thing as many persons imagine. I cannot indeed teach you how to acquire the nicest symmetry of features; or those delicate tints that produce universal admiration. These are gifts that hountiful nature alone can bestow; but there is a charm, superior far to any thing that these can give, that it is in the power of every young woman to acquire. But my dear," said the, gently patting my head, as I sat in silent attention beside her, " it is now time to walk ;—go, my dears, and divert yourselves toge-

280 on popularity. Oct 24. ther; and when you are tired with play, and sit down again to work, I shall teach you the envied artof becoming beautiful; and, let me tell you, it is not every one to whom I would communicate this important secret."

Suc' my dear Albert, is the stile of our conversations while at work. I listen with the most anxious attention ; and not a word that charming woman utters is lost upon me. I have a thousand things to say; but my paper is nearly filled; though I have written the last part of it so small, that I wifh you may be able to read it. I was going to entreat you to beseech my mother to let me stay here as long as I am to be from home; and not to make me return any more to the boarding school. I had prepared a hundred reasons to induce you to be hearty in the cause; but I have only room to mention the last. which, I know, will ever be the most powerful with you, and that is, that nothing could ever contribute so much to the happinels of your ISABELLA.

ON POPULARITY.

To the Editor of the Bee.

SIR.

THE admitsion into your useful miscellany, of the following observations, concerning the best means of obtaining the most substantial popularity, will oblige, at least, one of your readers.

Justice, like all other virtues, is amiable. A man, when treated with equity or justice, has no reason to expect more; he is pleased, and rests contented : but generosity, when opportunity offers, or when obOct 24. ay, and sit down envied artof beu, it is not eveate this impor3.7.92.

of our converthe most anxiharming woman busand things to though I have that I wifh you to entreat you here as long as make me return had prepared a e hearty in the sention the last, t powerful with ever contribute ISABELLA.

iscellany, of the he best means of larity, will ob-

miable. A man, has no reason to contented : but 's, or when objects occur proper for it, is still more amiable how many pleasing effects it produces, both with respect to the persons who are its objects, and to their benefactor, it is impossible to enumerate or fully to describe. In the persons relieved, it creates much happinefs, begets the warmest gratitude, and the most hearty attachment, and prompts them both by words and actions, to make their benefactor, when they can, suitable returns ; and to the generous man, it yields the pleasing satisfaction of diffusing goodnefs, and of rendering a number of his fellow men happy. By dealing justly we leave no room for complaint; but by well timed generosity, we gain the hearts of men; and their favourable and affectionate report is an acquisition of great value, and highly pleasing to every ingenuous mind. For a righteous man, or for a man merely just, scarcely will one die, but peradventure for a good or generous man, some would even dare to die.

on popularity.

Men are made to feel not only for themselves, but also for their fellow men; thus they weep with them that weep, and rejoice with them who rejoice; they resent in various ways the injuries done to the helplefs and innocent, as if done to themselves; and they feel an high degree of thankfulnefs for the good deeds done to their indigent brethren; and thus a tribute of affection and praise is paid to the beneficent man by all around him.

To maintain a social intercourse with our neighbours of the same rank, is no doubt proper; but it is to be remembered, that a true friend is not every where to be found,—that our visits at a distance vol. xi. NN +

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Oct. 24. on popularity. 282 cannot be many, nor are these generally interesting. The world at large are but little acquainted with our real characters, nor are they much concerned to know them. It is in the domestic circle, within which we live, where our conduct is scrutinized, and daily viewed on every side,-that we are most thoroughly known; and when the opinion of our servants, of our dependants, and neighbours, within that circle, however narrow it may be, is, upon trial, or upon good ground, favourable, it diffuses its influence as the sun its light and heat, through the remoter parts of society : for the public almost invariably take their opinions, whether favonrable or unfavourable, from domestic reports ; therefore our families, and our immediate neighbourhood, merit our first attention.

The result then is, that those who would gain the public esteem, and the friendship of the worthy, must, in the first place, be just, and then generous, as their circumstances will permit. For the conduct of those must appear in a very unfavourable light; who affect to be generous, and yet neglect to pay their lawful debts ; who expend large sums upon thows and entertainments, and leave their tradesmen's bills unpaid, and thereby expose their families to misery and want ; and who, like the Pharisees, make a fhew of liberality to the poor, but endeavour to refund themselves, by devouring widow's houses, and encroach upon the rights of their simple dependants : the candidates then for substantial fame, should, with an attentive, and an impartial eye, inquire, whether there are, by negligence or otherwise, any instances of in-

Oct. 24. erally interestittle acquainted hey much condomestic circle, nduct is scrutie,-that we are he opinion of our eighbours, withmay be, is, upon le, it diffuses its eat, through the ublic almost iner favourable or s; therefore our bourhood, merit

o would gain the he worthy, must, generous, as their e conduct of those light; who affect pay their lawful 1 ihows and enteren's bills unpaid, misery and want ; e a fhew of libera. to refund themses, and encroach endants : the canhould, with an atire, whether there ny instances of in-

283 on popularity. 1792. justice to be found, or any encroachments made upon the rights of others, within their department, and correct them without delay. The rich can defend themselves, but the poor have often no relief but in crying to God; and he will hear them. They complain too in private to the men of their own condition, and their voice is carried as upon wings, and makes, upon all ranks, the deepest impression. Promises in 1d not be rashly made, because circumstances may occur which may render the performance difficult, or impracticable; but when they are made, and no valid objection afterwards arises, they ought to be performed. Promises convey a certain kind of right, and therefore raise expectations; a failure, then, or omission, in these cases, creates disappointment; and disappointment, resentment, and disgust, and complaints, and many disagreeable effects. . .

Considering how different the characters, and tempers, and opinions of men are, it will easily appear, that no man can act so as to please all. Whoever attempts this, attempts an impossibility. By varying his conduct like the wind, instead of gaining applause, he incurs the contempt and displeasure of all; whereas the man who obeys the dictates, and courts the approbation of his own well informed mind, is naturally led to act his part steadily and uniformly well; and bids fairer than men of a different character not only for the enjoyment of internal peace, but for obtaining the confidence, the approbation, and friendship of all the worthy and the good.

In a word, of his plan who would with for substantial popularity, or durable fame, piety or feli-

remarks on Thunderproof's efsays. Oct. 24. 284 gion, must make an efsential part. Excepting religion, all the other principles of human conduct, having for their objects things which daily change; must, like them, be subject to perpetual variations, and the conduct founded upon them, mutable and uncertain. Upon men thus unstable as water, what wise man can depend? Whereas the principle of religion, having God for its object, as he is unchangeable, must, in some degree, be immutable also; or to say the least, it is fixed and steady. Besides, religion, having for its object God, who is the supreme beauty, must render a man truly amiable. Whom do we wish for a companion or friend whom we can heartily love? or a counsellor upon whose integrity and faithfulnefs we can without suspicion depend? The man who fears God, and sets him continually before him.

Wherever piety is, it flows itself, not only by equity and beneficence to men, but by external acts of worship or devotion; where these then are wanting, we can neither love nor trust so much as we would wish. The conclusion of the whole is, that real piety is the finest ornament of the human character. I am, Sir,

AMICUS.

SIR, To the Editor of the Bee.

Yours, Sc.

IN your last Bee, I observe a reply from Mr Thunderproof, to my observations on his "remarks." Mr T. wisely avoids entering into any particular discufsion of the subject, and contents himself with maIsays. Oct. 24. Excepting relinan conduct, haly change, must, riations, and the and uncertain. what wise man of religion, hahangeable, must, ; or to say the religion, having me beauty, must n do we wish for n heartily love? and faithfulnefs The man who before him.

elf, not only by by external acts e then are wantt so much as we he whole is, that f the human cha-

AMICUS.

ee.

from Mr Thunnis " remarks." ny particular disnimself with ma1792. remarks on Thunderproof's efsays. 285 king a few straggling criticisms, that hardly deserve any notice.

In the first place, Mr T. accuses me of misquoting him, and perverting his meaning, in that part of his " remarks," where he speaks of the pacific character of James I, / I' think it is evident, from the warm and enthusiastic manner in which he mentions the prolongation of this monarch's life, that he wished to connect with it the idea of peace and prosperity. Had he lived, Mr T. afserts, to the present time, this country would have been now in a state of prosperity, beyond the imagination or vanity of man to conceive. He indeed afsociates the " tranquillity of the country," with the life of James ; but this I conceive to be a uselefs repetition, as the predicted prosperity could arise only from the pacific inclinations of this monarch ; not surely from his talents for internal government or legislation.

Mr T's distinction betwixt "worst," and "most destructive," though curious enough, has not even the merit of a quibble or sophism. I did not say that he applied the superlative "worst," to the moral character of lord Chatham. This he acknowledges himself; and surely, in a political sense, the "worst minister," and the "most destructive minister," are synonimous terms.

I afserted that Mr T. called Sir Robert Walpole the best of ministers. He denies it, and says I am the first who ever said so. I beg leave to quote the paragraph whence I drew my conclusion. After calling lord C. "the most destructive minister that ever any nation was cursed with," he adds, "yet this

286 remarks on Thanderproof's efsays. Oct. 24. man we prefer to Sir Robert Walpole, a statesman, whose maxim it was to keep us at peace with all the world." I leave to your readers to judge, whether, from this opposition, Mr T. áid not consider Sir Robert Walpole's character as directly the reverse of Chatham's; whence it follows, as a necefsary consequence, that since lord Chatham was the worst of ministers, Sir Robert must have been the best.

It is difficult to conceive what Mr T. would be at, when he talks of the mainefs " of the war system." Every friend to humanity must deplore the devastation and havock of war; but to conceive the idea of living in continual and universal peace, an idea very much talked of at present, is, I am afraid, one of those extravagancies into which mortals are at times apt to fall. It is an idea too exalted for our present system. Could we extinguish the guilty passions of ambition, revenge, avarice, superstition, envy, we might then enjoy the ealm which Mr T. so much desires. But I leave to the philosophers to decide, whether, even in that case, mankind would inherit a much greater degree of happinefs than we do at present : or whether the world would not resemble a standing pool, or dead, inactive mais, where virtue would disappear as well as vice; where there would be neither love nor hatred, hope nor fear, which, properly balanced, and mingled in the cup of life, form the true enjoyment of it. For my part I conceive the passions of mankind no lefs necessary to stir up and agitate the moral world, and to prevent a stagna-

essays. Oct. 24. ole, a statesman, at peace with all s to judge, whedid not consider directly the rews, as a necelsary m was the worst been the best. r T. would be at, the war system." plore the devastanceive the idea of eace, an idea very m afraid, one of ortals are at times ed for our present ilty passions of amn, envy, we might so much desires. decide, whether, ld inherit a much we do at present : esemble a standing ere virtue would e there would be fear, which, proe cup of life, form ny part I conceive ecessary to stir up · prevent a stagna1792. on caterpillars. 287 tion, than the winds are to prevent a stagnation of the sea. 1 am respectfully, Sir,

A SINGULAR PHENOMENON RESPECTING A CATERPILLAR.

SIR, To the Editor of the Bee.

This day, while another gentleman and I were paying our devoirs at the temple of a certain goddefs; we observed two or three caterpillars with something at the sides of two of them, of a yellowish colour; which, upon a nearer inspection, we found to be a great number of cocoons of silk, differing only in size from those of the silk worm. On breaking one of these, a juicy substance came out. Being desirous of making further observations on these caterpillars, we brought into the house one with, and another without the cocoons. It was then about ten o'clock. In an hour and an half afterwards, we saw about eighteen living creatures making their way out of the last mentioned caterpillar, nearly about the middle of the body. They did not resemble the caterpillar in any respect; being of a yellowish colour, pointed, and blackish towards the head, and without any feet. As soon as they had made their way out of the body, they immediately commenced spinning cocoons, similar to those about the other caterpillar. By five o'clock they had completed their work. During all this time the mother lay perfectly mo-

288 on caterpillars. Oct. 24. tionlefs. All this to us appeared so very surprising, knowing that all caterpillars first pafs into the aymph or chrysalis state, and then become butterflies, at which period the eggs are deposited, that I determined to communicate to you what we had seen, in hopes that you, or if you think this letter worthy of insertion in your useful miscellany, some of your correspondents, would afford us some information on this subject. I am, Sir,

Your constant reader and admirer, JUVENIS.

Edinburgh, Sept. 23. 1792.

P. S. It was my intention to send a drawing of the caterpillar; but I think it best to send one of them, the other I shall keep to make further observations.

Observations on the above.

ALONG with the above letter was sent, in a box, a caterpillar, which is exactly delineated in the miscellaneous plate, fig. 7. p. 244, with two parcels of cocoons of a yellowifh colour, as there represented; all of the natural size. The caterpillar was still alive on the 26th, but refused to eat. It continued to fhow signs of life for a day longer, when it fimally expired. The cocoons remain till this time, October 14th, without any change.

Of all the works of nature none appear more surprising to the contemplative mind than the phenonomene that respect reptiles and insects; two clafses of animals extremely different in appearance, yet, in reality, connected with each other by the nearest relation. Among the reptile tribe there are three prin-

Oct. 24. very surprising, is into the nymph e butterfies, at ed, that I detert we had seen, in letter worthy of . some of your e information on

r and admirer, JUVENIS.

nd a drawing of t to send one of ke further obser-

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as sent, in a box, neated in the misth two parcels of here represented ; rpillar was still at. It continued nger, when it fiin till this time,

appear more surd than the phenosects ; two clafses ppearance, yet, in by the nearest reere are three prin-

on caterpillars. 1792. cipal divisions which are produced from the eggs of. insects, each of which admit a great number of lefser varieties. These are caterpillars, grubs, and maggots. Nor is the interposition of providence more conspicuously apparent in any one instance, than in that unerring instinct that directs the parent fly to deposit its eggs upon such substances as are fitted to afford proper food for the young, as soon as they shall be produced. In general caterpillars are deposited on plants, grubs in the earth, and maggots in animal substances.

But though this rule be general, it is not universal. The gall insects, whose eggs produce a species of maggot, are always deposited on plants peculiar to each species. And though I do not at present recollect any animal of the caterpillar tribe that lives on animal substances, yet it is by no means impofsible but there may be some of that kind. Whether the animals that issued from the body of these caterpillars were of this sort, or to what other class of reptiles they belong, remains to be ascertained. That they could not be the young of the caterpillar itself from which they ifsued, seems to be undeniable; as this would be a mode of procreation totally different from what is known to take place among that tribe of animals. From the observations of my correspondent, indeed, it does not seem to be of the caterpillar genus at all, as it wants feet; nor is the cocoon of the nature of that produ. ced by caterpillars in general; for these are always made to envelope a chrysalis for a time; whereas, upon examining some of the small cocoons here alluded to, there is not the smallest appearance of a VOL. xi. 00 t

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290 on caterpillars. Oct. 24. chrysalis can be discovered. The outer envelope of these cocoons, is a substance in every respect resembling the outer part of a silk worm's cocoon, only the threads are much more tender, and in smaller quantity; for the greatest part of it consists of a ball containing an oblong bag, filled with a kind of thickifh juice, more resembling an egg without a fhell, than any thing to which I can liken it. What animal is to be produced from this egg I fhall be glad to know.

It appears to me that the insect which ought to be produced from this species of cocoon, has deposited its eggs in the body of the caterpillar, which have there been hatched, like maggots in other animal substances, and which have subsisted on the caterpillar itself till the time of their transformation approached, when they have burst their confinement, and prepared for another state of existence; as is common with all animals of this kind.

The production of a silky web is by no means peculiar to the caterpillar genus. The web of a spider is well known; and several kinds of snails produce occasionally threads of great strength, which they have the power of availing themselves of for temporary uses; but I know not if any of these retain strength for any permanence of time. I was myself witnefs to the strength of a rope of this sort last summer, which occasioned to me no little surprise. The fact I thall here relate, to see if any of my readers can give any satisfactory elucidations on that subject. Oct. 24. atter envelope of respect resemcocoon, only the n smaller quansts of a ball conkind of thickish out a shell, than What animal is sall be glad to

hich ought to be n, has deposited llar, which have in other animal ed on the catermisformation apheir confinement, existence; as is id.

by no means pee web of a spider of snails produce ngth, which they ves of for tempoy of these retain e. I was myself of this sort last o little surprise. if any of my reacidations on that \$792.

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Phenomenon respecting snails. In a fine summer evening was discovered a large cluster of the common black snail, suspended from the branch of a tree, which was about six feet from the ground, by a strong fhining transparentlike thread, of the size of a common packthread. At the time they were observed, this thread was fully three feet in length; the snails were entwined in one another; and, being then nearly dark, the precise number of them could not be ascertained; but it seemed there might be about five or six that were evidently working at the time; and we could see protruded from the under part of the cluster, a white substance, brighter than the thread above, which gradually lengthen ed. After standing for some time, and observing this operation, as well as the little light we had would permit, we went away for some time; and, on our return, it was evident the thread had been lengthened, as they were still in the same position, but nearer the ground. As it was now beginning to grow late, we left them ; but in the morning no traces of the thread could be perceived. It was a large tree, with cavities in the trunk ; and it seemed to me that the snails had taken that method of letting themselves down to the ground in the evening, that they might feed there through the night; and that they ascended the tree in the morning, to hide themselves through the day in their lurking holes ; -but whether they re-ascended by their thread, and drew it up with them; or whether they crawled up the tree without it, I know not. There were evident traces, though slight, of snails upon the trunk of the tree. It is evident that snails can ascend upon

on snails.

202 on reptiles and insects. Oct. 24. a tree; but, perhaps, they have difficulty in descending. I never saw a snail in the act of descending, that I can recollect, though this may only have eluded remark.

Our knowledge of reptiles, and insects, is yet but inconsiderable; and, though these objects appear triffing to the bulk of mankind, yet many are the benefits that might be derived to man from a perfect acquaintance with this subject. The larvæ of insects afford a delicions repast to many animals; and, by what Dr Anderson states of the white lac in Bengal, (Bee vol. ix. p. 4, Sc.) it would seem that some of these might be employed as food for man. At any rate, an exact knowledge of the insects that produce the eggs of various reptiles, which are highly destructive to man,-of the food they require,-the times of nidification,-the duration of life in their different states,-the circumstances that are favourable or noxious to them in their different stages,-the animals which seek them for food, Gc. might be of the utmost utility; as, by that knowledge, man might not only be able to free himself from the most noxious kinds; but even occasionally to convert these to profit, by employing them as food for other animals, of whose labours he could avail himself. This is therefore a wide field for useful investigation, which ambitious youth will do well to cultivate.

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t of descending, only have elu-

sects, is yet but objects appear t many are the an from a perfect 'he larvæ of iny animals; and, white lac in Bend seem that some for man. At any ects that produce h are highly deey require,-the of life in their difat are favourable stages,-the aninight be of the ute, man might not the most noxious ert these to profit, other animals, of imself. This is vestigation, which ttivate.

POETRY.

LIFE, A SONG.

For the Bee.

SENCE life is a load we must bear, No more let us under it groan ; Keep us but a stranger to care, The world, as it pleases, may frown.

The cautions of that sullen sot, Incefsantly tinele the ear, With, "O man! consider thy lot, A title to hope and to fear."

We allow all this may be right, Yet experience, who guides me along, Is fam'd for true judgement, and sight, Besides an unprejudic'd tongue.

Experience o'er Care must prevail, Whose maxims the weightiest we find; Though Care be for hesping his scale With scruples far lighter than wind

The courtier affects the gay place, The lover his pain would remove; The one is preferr'd by his grace, The other succeeds in his love.

The courtier—what now? has resign'd; (Mere whispers those wretches disgrace) And Chloe discovers her mind Way not of a par with her face.

Dull mortals, why seek ye for blifs ? 'Tie what ne'er will fall to your lot, Though the bottle, the purse, and the mile, Pretend they the secret have got.

Since the game that we play is in jest, At the cards no more anxious, l'll peep ; For thould trumps hold me out to the last, Just nothing's the profit I resp.

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294	poetry.	Oct. 2
	THE SECRET BLABBED.	
	For the Bee.	
	Sylvius, ergig'd one day at dice,	
	11 set hist ' come hither John, he cries i	
	Then whispers close, -Run to Lucinda, Make haste, be quick, you know the window	
	Tell her I cannot come to day,	
	1 'm very much engag'd at play]	
	But when you come to me again,	
	Be sure you say it was a men. Yes, Sir, says John, away he flies,	
	Returns to Svivius in a trice.	
	What says the gentleman? where is he?	
	Why Sir, he says he's wond'rous busy.	
	What was he doing when you came? Why truly, Sir, I dary not name.	
	Te'l, me or else, -Oh, Sir, l'll do it,	
	-A putting on his petticoat.	
- And the Local Dates		
	EPIGRAM.	
	For the Bee.	
	A CORNESS vicar while he preach'd,	
	Of patient Job d'd speak ; When he came home found to his rief,	
	His cask had sprung a leak.	
	Enrag'd,-his wife did thus advise,	
	Toh for a pattern chuse ;	*
	But he reply'd, Job ne'er had such A tub of ale to lose.	
-		
	EPIGRAM,	
	For the Ber.	
	AN epigram by school boy writ,	
	The pedant old surveys ; And as his wisdom thought most fit,	
	His stick wrofs him lays.	
	The student felt his noddle bleed,	
	And mumbling, answer'd thus;	
	My epigram is bad indeed,	
	But your acro-stick's worce.	

Oct. 24:

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NOTICES OF IMPROVEMENTS NOW GOING ON IN INDIA.

improvements in India.

Continued from p. 192. Respecting the bread fruit tree.

From Alexander Macleod esq. to Dr James Anderson. DEAR SIR,

I accept with great pleasure the commission you have favoured me with, to enquire respecting the bread fruit tree. The inclosed extract of a letter to Dr Mein will fhew you what steps I have taken to promote the iaquiry. I shall also write to Coimbatore, on the subject, as it is said that the bread fruit tree grows in that district; but I did not see it in any part which I passed through in August last, and I went through very fine, and highly cultivated spots, near the hills, and returned through the center of the district. I am, &c.

Dindigul, Feb. 5. 1792.

"I have been favoured with a letter from Dr Anderson, in which he desires me to inform him if the bread fruit tree is to be found in or near this district. His letter is accompanied by copies of the two letters you wrote to him respecting the bread fruit tree near Tritchinopoly; but the description of it in your letters, though perfectly clear to me, will not I fear be sufficiently so for the natives, whom I shall employ in searching for it.

" I therefore take the liberty of requesting that you will employ some person to make a coloured drawing of its fruit, blofson, and leaf, of the natural size, and forward it to me by the tappal, together with a measurement of the general height of the tree, by the help of which I thall probably be able to give Dr Anderson a satisfactory answer to his inquiries."

From Dr James Anderson to Atex. Macleod esq.

 D_{EAR} Sir, I am truly sensible of your ready attention to my request of searching for the bread fruit tree, as the mode you have adopted will readily discover it.

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improvements in India.

Oct. 24.

Mr Lickie, who lately travelled through your part of the country in his journey from Europe, knew the tree in my garden at first sight, and tells me that he saw several of them in Mr Martin's plantation at Palamcottah.

The tree I have likewise heard say, grows on the island of Elmiferam, as well as at the fort of Palicatcher.y, and that the streets of Cochin are planted with it; in which latter case I am sure Mr Powney will readily supply you with some plants for your garden.

I mention these circumstances as preparatory to the establihment of more extensive plantations of a tree that will afford subsistence, independent of the periodical rains, prove a means of counteracting monopolies of grain, and furnihing a reason for supporting the poor in times of scarcity, by employing them to repair tanks, wells, and choulteries at these times.—Two years ago Mr Alexander Anderson wrote me from Cochin, that he supped at a Dutch gentleman's upon bread fruit, which resembled $\chi_{11,2}$ finest yam he had ever tasted. I am, &c.

Fort St George, Feb. 19. 1792.

From Robert Andrews esq. to Dr James Anderson. DEAR SIR,

THE nopal which you have been kind enough to send, arrived safe by yesterday's tappal. It was immediately planted, and I thall acquaint you hereafter if it thrives. I am happy to inform you that the silk worms are now multiplying very fast, and appear perfectly healthy,—from the first silk that I wind off, a sample will be forwarded to you, and I have to request you will point out any defects which may appear, that I may endeavour to rectify them.

I have been lately informed, that the bread fruit tree grows at Shevelipatore, where captain Dighton commands, and that the fruit thereof is eaten by the natives in that part of the country. I remain, &c. Truchimopoly, March 1. 1792.

From the same to the same.

DEAL SIR,

I VESTERDAY received your second inclosure of the nopal, which has been planted.

l was this morning visiting the bread fruit trees at Allitory, and according to your directions set off several woots from the old trees; but in walking about the garden a. Oct. 24. gh your part of the ew the tree in my he saw several of incottah.

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reparatory to the ions of a tree that the periodical rains, lies of grain, and poor in times of tanks, wells, and ago Mr Alexann, that he supped t, which resembled m, &c.

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mough to send, ars immediately planif it thrives. I am ms are now multihealthy,—from the e forwarded to you, t any defects which ctify them. he bread fruit tree Dighton commands, he natives in that

ime.

osure of the nopal,

read fruit trees at tions set off several 3 about the garden

1792. a providential deliverance.

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I discovered six young trees about half a foot high, which upon enquiry I found to be raised from seed, which the gardeners had sown some time ago.

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As, by your correspondence, I find the tree in your garden, was last month in flower, you will be well pleased at the above information, and the ease with which the tree may be propagated,—and by your writing to Mr Powney at Travancore, I have no doubt but you might obtain any quantity of the seed you with. I remain, &c. Tritchingely. March 2. 1792.

A PROVIDENTIAL DELIVERANCE.

The following account of the interposition of divine providence, in favour of a widow and her family, near Dordrecht, in the province of Holland, is copied from the Leyden gazette. This industrious woman was 'left by her hufband, who was an eminent carpenter, a comfortable house, and some land, and two boats for carrying merchandise and passengers on the canals. She was also supposed to be worth above ten thousand guilders in ready money, which the employed in an hempen and sail-cloth manufactory, as the means not only of increasing her fortune, but of instructing her children, (a son and two daughters) in those useful branches of businels. 'One night, about nine o'clock, when the workmen were gone home, a person drefsed in uniform, with a mufket and broad sword, came to her house, and requested lodging : "I let no lodgings, friend," said the widow, "" and besides, I have no spare bed, unless you sleep with my son, which I think very improper, being a perfect stranger to us \$11." The soldier then shewed a discharge from Diefbach's regiment, (signed by the major, who gave him an excellent character,) and a palsport from compte de Maillebois, governor of Breda. The widow believing the stranger to be an honest man, as he really was, callla transfer and the set i + 21, VOL. Xi. 10 222 2 20 20

a providential deliverance. Oct. 24 .. 208 ed her son, and asked him, if he would accommodate a veteran, who had served the republic thirty years with reputation, with a part of his bed. The young man consented, and the soldier was hospitably entertained, and withdrew to rest. Some hours after, a loud thumping was heard at the street door, which roused the soldier, who stole softly down stairs, and listened in the hall. The blows were repeated, and the door almost broken through by a sledge, or some heavy instrument. By this time the affrighted widow and her daughters were running about and screaming, murder! murder! but the son having joined the soldier, with a case of loaded pistols, and the latter screwing on his bayonet, and fresh priming his piece, which was well filled with slugs, desired the women to retire, as bloody work might be expected in a few minures. Soon after the door was burst in, and two Q fellows entered, and were instantly shot by the son, who discharged both his pistols at once. Two more returned the favour from without, but without effect ; and the intrepid veteran, taking immediate advantage, of the discharge of their arms, rushing on them like a lion, ran one through the body with his bayonet, and whilst the other was running away, lodged the contents of his piece between his fhoulders, and he dropped dead on the spot. They then closed the door as well as they could ; reloaded their arms ; made a good fire ; and watched till daylight, when a number of weavers and spinners came to sesume their employment; we may guels their horror and surprise on seeing four men dead on a dunghill, where the soldier had dragged them before the door was fhut. The burgomaster and his syndic attended, and took the depositions of the family, relative to this affair. The bodies were buried in a crofs road, and a stone erected over the grave, with this inscription : " here lie the wretched carcases of four unknown ruffians, who eleservedly lost their lives, in an attempt to rob and murder a worthy wo-

Oct. 24. d accommodate a thirty years with e young man conentertained, and a loud thumping oused the soldier, ened in the hall. or almost broken rument. By this ughters were runrder! but the son of loaded pistols, and fresh priming slugs, desired the t be expected in a burst in, and two Q by the son, who vo more returned fect; and the instage of the diske a lion, ran one whilst the other of his piece belead on the spot. ey could; reloadwatched till dayspinners came to s their horror and dunghill, where ne door was shut. d, and took the affair. The boone crected over lie the wretched adeservedly lost der a worthy wo-

1792 Indian magnanimity. 200 man and her family. A stranger who slept in the house, to which divine providence undoubtedly directed him, was the principal instrument in preventing the perpetration of such horrid designs, which justly entitles him to a. lasting memorial, and the thanks of the public. John Adrian de Vries, a discharged soldier, from the regiment of Diefbac., .. native of Middleburgh in Zealand, and upwards of seventy years old, was the David who slew two of these Goliaths; the rest being killed by the son of the family. In honorem, et gratitudinis ergo, Dei optimi maximi pietatis et innocentiæ summi, protectoris,-magistratus et concilium civitatis Dortrechiensis boc signum poni curaverexx. die Nov. annoque salutaris bumani, 1785." The widow presented the soldier with an hundred guineas, and the city settled an handsome pension on him for the rest of his life.

INDIAN MAGNANIMITY.

An Indian, who had not met with his usual succefs in hunting, wandered down to a plantation among the backsettlements in Virginia, and seeing a planter at his door, afked for a morsel of bread, for he was very hungry. The planter bid him hegone, for he would give him none. "Will you give me then a cup of your beer?" said the Indian. 'No, you thall have none here,' replied the planter. "But I am very faint," said the savage, ".will you give me only a draught of cold water?" 'Get you gone you Indian dog, you thall have nothing here,' said the planter. It happened, some months after, that the planter went on a fhooting party up into the woods, where, intent upon his game, he mifsed his company, and lost his way; and night coming on, he wandered through the forest, till he espied an Indian wigwam. He approached the savage's habitation,

a picture of a court; 100 Oct. 245 and afked him to fhew him the way to a plantation on that side of the country. " It is too late for you to go there this evening Sir," said the Indian; " hut if you will accept of my homely fare, you are welcome." He then offered him some venison, and such other refreshment as his store afforded ; and having laid some bear fkins for his bed, he desired that he would repose himself for the night, and he would awaken him early in the morning, and conduct him on his way. Accordingly in the morning they set off, and the Indian led him out of the forest; and put him in the road : he was to go; but just as they were taking leave, he stepped before the planter, then turning round, and staring full? in his face, bid him say whether he recollected his features. The planter was now struck with shame and horror, when: he beheld, in his kind protector, the Indian whom he had? so harfhly treated. He confessed that he knew him, and was full of excuses for his brutal behaviour ; to which the Indian only replied : "When you see poor Indians fainting for a cup of cold water, don't say again, ' Get you. gone, you Indian dog !'. The Indian then wilhed him well. on his journey, and left him. It is not difficult to sav. which of these two had the best claim to the name of a Christian. provide and the second second

A PICTURE OF THE COURT, DRAWN FROM THE LIFE, BY AN ABLE PAINTER.

THERE, every one obeys that he may command ; they eringe that they may exalt themselves: at every instant they change parts ;--every one is protected and pratector ;--every one; receives vain promises, and gives others as vain in the same moment. It would seem that no person dies in that region ; for in a moment every one is forgotten,--every one is rea-

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placed, without the This is the abode torments, the othe chimeras. Death hopes that have been midst of projects who do not know filled with delight but cannot leave i

Serve the prince balsies, in his arm or whatever appoi

A courtier said, panions, who was learn to please ? y live by the labour the other, do you be obliged to be a

The best of all All the pleasures insipid to him who mented by vanity, on whom fortune yours, to whom r body; who is belo his family, whore his family, where lived on his own doing good to a makes his appears and is then scarced does not feel the a picture of a court; Oct. 24 hew him the way to a plantation on ountry. " It is too late for you to go bir," said the Indian; " but if you will acfare, you are welcome." He then ofnison, and such other refreshment as his having laid some bear fkins for his t he would repose himself for the night, en him early in the morning, and conduct cordingly in the morning they set off, and out of the forest; and put him in the road just as they were taking leave, he stepter, then turning round, and staring full? say whether he recollected his features. w struck with fhame and horror, when ind protector, the Indian whom he had He confeised that he knew him, and for his brutal behaviour ; to which the : "When you see poor Indians faintold water, don't say again, ' Get you. og !'. The Indian then wilhed him well. d left him. It is not difficult to say, had the best claim to the name of

HE COURT, DRAWN FROM THE LIFE, BY AN ABLE PAINTER.

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eys that he may command ; they eringe beneselves: at every instant they change is protected and protector ;-every one; ses, and gives others as vain in the same eem that no person dies in that region ; ery one is forgotten,-every one is re**B795 a** picture of the court. 30 r placed, without the smallest appearance of any change. This is the abode of envy and of hope; while the one torments, the other consoles, and gives birth to agreeable chimeras. Death seizes the inhabitants in the midst of hopes that have been disappointed for twenty years,—in the midst of projects which would demand another life. Those who do not know this country, believe it to be a placefilled with delights; those who inhabit it, speak ill of it, but cannot leave it.

Serve the prince, said a wise man to his son, in his embalsies, in his armies, but never at court, whatever place, or whatever appointments are afsigned to you.

A courtier said, one day to one of his old college companions, who was a labourer: Wherefore do you not. learn to please ? you would then be no longer obliged tolive by the labour of your hands. And why, answered the other, do you not learn to work ? you would no longer. be obliged to be a slave.

On ambition.

The best of all good things, says M. Retz; is repose. All the pleasures which nature can bestow, become insight to him who is agitated by ambition, who is tormented by vanity, or torn by envy. You thall see a man on whom fortune has been prodigal of her choicest favours, to whom nature has given a sound and vigorous body; who is beloved by his wife, and his children, whom he cheriftes; whose presence spreads pleasure and joy in his family, where he is only an apparition; who, if he lived on his own domains, would enjoy the pleasure of doing good to a set of numerous vafsals, but he there makes his appearance only three or four times in a year; and is then scarcely seen till he is gone again. This man does not feel the value of health; he does not enjoy his

362 plan of Switzerland. Oct. 24, fortune. His life, which might flow on in that kind of animated leisure, which results from the exercise of acts of beneficence, is consumed in agitation and in fear. Independent by his riches, he devotes himself to servitude; and is tormented by chagreen. His sleap, which ought to be pleasing, is troubled by envy and disquietude. He writes, he cringes, he solicits, he tears himself from pleasure, and gives himself up to occupations that are not suited to his taste; he in a measure refuses to live during forty years of his life, in order that he may obtain employment, dignities, marks of distinction, which, when he obtains them he cannot enjoy.

PLAN OF SWITZERLAND IN RELIEF.

 I_N the city of Lucerne in Switzerland is to be seen one of the greatest curiosities of its kind in Europe ;—a plan, in relief, of the countries adjacent to that lake so justly famed in Helvetic story. This surprising work, which discovers alike the patriotic spirit and unsurmountable perseverance of the undertaker, is carried on at the sole expence of general Pfiffer who has been busied about it upwards of twelve years, and still continues to augment it from day to day. In the mean time he allows strangers accefs to see it with the utmost politenefs.

One there perceives, with surprise, the proportional height and form of the rocks; the declivity of the mountains; the kind of trees which grow there, according to the soil and the elevation; the direction of the roads and of the paths; the course of the rivers which divide the plains, the vallies, and the mountains are all marked. The sinuosities of the rivulets, and the falls in cascades; the position of the lakes, cities, burghs, villages, and castles,

Del. 24. v on in that kind of the exercise of acts ion and in fear. Inhimself to servitude; sleep, which ought nd disquietude. He rs bimself from pleapations that are not refuses to live during he' may obtain emion, which, when he

RELIEF.

d is to be seen one of Europe ;-a plan, in hat lake so justly faing work, which disunsurmountable pered on at the sole exieen busied about it ntinues to augment it he allows strangers' enefs.

se, the proportional eclivity of the mounv there, according to tion of the roads and ers which divide the are all marked. The lls in cascades; the villages, and castles,

1792.

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to correspondents. that of single houses, are all observable, even to the crofses placed along the road, and the form of the houses.

This map in relief, comprehends sixty square leagues, and includes the cantons of Uri, Switz, Undervald, and part of the cantons of Lucerne, Zug, and Ber.ic. Ali the objects are coloured; it occupies a space of twelve feet long by nine feet and a half broad, and the lake of Lucern e has been taken for the center of the plan.

The substance of it is a composition of pitch and wax, except the mountains, for which stone has been employed.

TO CORRESPONDENTS.

THE Editor agrees in opinion with one of ibe friends of the people, though he doubts if the mode of writing he has adopted be the best calculated for effecting the end he has in view. On that account he will deliberate before he resolves to insert that paper. The facts respecting the viper, which have been received from seve-ral hands, fhall be communicated to our readers in due time.

The communication by a young observer, is received, and shall have its turn

Tackstrotte's communication on the same subject is also received, and fhall be delayed will he has had an opportunity of seeing, the former; as it will tend to superscele some of his remarks. The favour of Y. L. is received. The hints of A. M. M. fhall be duly adverted to.

Thanks to R. W. for his fort article. Authentic facts respecting natural history, or the progrefs of the human mind, that are not generally known, are always acceptable.

Known, are always acceptable. G. B. deserves thanks for his elaborate afsay. It might be improved, if it were considerably abridged. Should the writer attempt it, he will find it a profitable tafk in his beginning exercises in composition. Thanks to C. G. for his obliging attention. The traveller by E. G. is thankfully received. A continuation will be very accentable.

very acceptable.

very acceptable. The communications by *Ein Leibbaber*, are come to hand.—His farther correspondence is requested.—The Editor feels more aensibly than he can do, the disappointment he has received by a hreach of compact with a correspondent in Germany, who undertook in the most liberal manner; but has performed nothing. There is no bringing such culpris to punlih-ment, except by holding them up to detestation to the public; and this the Editor has been sometimes tempted to do *nominatine*; but be believes silent contempt is the more manly procedure. The Editor regrets the expence of postage; writing small on large paper would greatly diminifu-thes. It might perhaps be *Sarther* diminified did the Editor know his particular addrefs. particular addrefs. The book is not translated. .

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to correspondents.

Oct. 24:

The poem Liberty Ball, is written with ease and spirit; but it is too ina ne poem *Livery Bell*, is written with ease and spirit; but it is too in-coirect for publication; and, in some places, the expressions are rather harfh. The Editor remarks with surprise, some corrections that were found in it. Bee box, seemingly is the same hand writing, which ap-pear to be of an opposite tendency to the rest of the poems; of these the following is a specimen.

Now the period's come at last, Freedom sounds her final blast; Anarchy, and defamation, Are the fruits of veurpation.

Hence ! ye thamole's base usurpers ! Of both faith and truth corrupters : Misrule's the bane of liberty !

Who scorn the laws can ne'er be free,

The Editor suspects that some wag who has seen the verses, has chosen this methed to traveate them. Whatever oplinon he may form of the above, he is happy to agree with this currector in the following stanza.

May the British constitution,

From the second to little with the general tenor of the mist cation, that the kattor does not choose to intermediale in it i though the following lines, which are a very favourable specimen of the writer's composition, give a liberty he never withes to exercise; because he does not consider himself qualified for the tafks nor, if he were, would he choose to exercise it. Cut and carve, or throw away; If compared to the second to the se

If encourag'd, Sir, you may Hear again another day, Hear again another day, From your friend and liberty, Truth, and right, and equity. Grace and growing to the Bee i Sir, your acreant, frank and free.

Sir, your servant, frank and tree. PLATM ENGLISM. To hear from this correspondent, with equal case and spirit as above, any subject not connected with pollicies, will give the Edicor pleasure. But, as he wifthes to keep all his readers in good humour if he can, he is desirous of avoiding subjects of a political nature at present. There are two few persons who can have the philanthropy of uncle Toby,—to bid world is wide erough for us all, to allow others to indulge their whims without being disturbed by them; yet there are many persons of such an intrable disposition, that they cannot be keep 1 arest, when others are themselves into a palsion,—stack facep, and puppet flows, and wind mills, a they come in their ways, and face having occasioned much mischief to others, come off at last with broken banes themselves.—The Editor withes to avoid these fraitlefs squabbles.'

Oct. 24:

expressions are rather e corrections that were and writing, which ap-the poem; of these the

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e free. s seen the verses, has er opinion he may form rrector in the following

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at the corrections accord on, that the Editor does owing lines, which are a sition, give a liberty he onsider himself qualified. exercise it.

PLAIN ENGLISH. esse and spirit as above, give the Ediror pleasure, give the Ediror pleasure, humour if he can, he is e at present. There are of uncle Toby,—to bid ain's; for, though the to indulge their whime at rest, when others are the Don Quizote, they get thows, and wind mills, sioned much mischief to ves.—The Editor withe

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. 1 THE BEE, V, , 1 LITERART WEEKLY INTELLIGENCER,

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WEDNESDAY, OCTOBER 34. 1792.



THE POLAR, OR GREAT WHITE BEAR.

NATURE hath bountifully decreed, that no part of the surface of the earth should be destitute of animals. Some are endowed with the faculty of bearing, without annoyance, a heat that would roast the greater VOL. Xi. + 22

3c6 on the polar bear. Oct. 31. part of animals which inhabit the earth; while others delight so much in cold, that they are only to be found in those regions where frost and ice eternally abound. To some, the sandy desart, alone, is found to supply their wants; while others can only exist in swamps and marfhy bogs. The water, itself, and air, and every thing we touch or handle, is full of life.

Among the quadrupeds of the coldest regions, the polar bear is the most conspicuous, not only for its size, but for its amazing strength, agility, and ferocity. In size it greatly exceeds of other animals of the bear tribe, being sometimes found to measure thirteen feet in length. Its limbs are of great thicknefs and strength; its hair long, harfh and disagreeable to the touch, and of a yellowifh white colour; and it has the singular peculiarity of being naturally disposed into tufts, very much resembling the manner in which a brufh is made; its ears are fhort and rounded; its muzzle long and fharpifh; and its teeth large.

It has seldom been seen farther south than Newfoundland.; but abounds chiefly on the fhores of Hudson's Bay and Greenland, on one side, and Spitzbergen and Nova Zembla on the other.

> "There, the fhapelefs bear, With dangling ice all horrid, stalks forform. Slow-pac'd, and source as the storms increase, He makes his bed beneath th' inclement drift, And, with stern patience, scorning weak complaint; Hardens his heart against afsailing want."

During summer, they take up their residence on large islands of ice, and frequently pass from one to Oct. 31. he earth; while at they are only the frost and ice sandy desart, ats; while others rifhy bogs. The hing we touch or

Idest regions, the a, not only for its agility, and ferosil other animals found to measure bs are of great ag, harfh and disllowifh white coculiarity of being much resembling ade; its ears are and fharpifh; and

south than Newon the fhores of he side, and Spitzher.

ar, dorn. acrease, nt drift, ak complaint,

their residence on pafs from one to

1792: on the polar bear. 307 another. They swim well, and can go the distance of six or seven leagues : they will dive ; but cannot continue long under water. When the pieces of ice are detached by strong winds or currents, the bears allow themselves to be carried along with them ; and as they cannot regain the land, or abandon the ice on which they are embarked, they often perifi at sea. But should a ship come near them, instig. d by hunger, and naturally fearlefs, they will boluig board it, and resolutely seize and devour the first animal they meet with. On these occasions, neither fire, nor noise, nor any kind of threats, will stop it in its progress; nor can any thing but the death of the animal, itself, save the crew from its rapacious gripe; for it will follow them up the farouds, and along the yards, wherever these are sufficiently strong to bear its weight.

Sometimes bears are thus driven upon the coast of iorway, almost familhed for hunger by their long voyage; but as soon as the natives discover one of them, they arm themselves, and presently dispatch him. Its flefh is white, and it is said to eat like mutton. The fat is melted for train oil; and that of the feet is used in medicine.

The white bear brings forth two young at a time. Notwithstanding their savage appearance, and natural ferocity, their fondnefs for their offspring is so great, that they will die rather than desert them *. Wounds serve only to make the attachment moreviolent: they embrace their cubs to the last, and bemoan them with the most pitcous cries.

" See a remarkable instance of this nort, Dec, ve', vit p. 90.

308 influence of taste on rural life. Oct. 31. They feed on fifh, seals, and the carcases of whales. Attracted by the scent of seals fielh, they often break into the huts of the Greenlanders. They sometimes attack the morse, with which they have terrible conflicts; but the large teeth of that animal, give it a decided superiority over the bear, which is generally worsted.

AN ESSAY SHOWING HOW TASTE EXALTS THE PLEA-SURES OF RURAL LIFE. BY THE AUTHOR OF THE ESSAY ON THE INFLUENCE OF TASTE.

SIR, To the Editor of the Bee.

Some time ago I had a letter from an acquaintance of mine, who has been long resident at a distance from the metropolis, in the quiet retirement of the country, and mixing but little in the busy bustling haunts of pleasure or ambition in the capital.

This letter is so full of the effects of that taste and discernment which I have endeavoured to explain and promote, that I cannot refuse myself the gratification of at least attempting to find a place for it in your elegant miscellany. I am, Sir, your humble servant,

B. A. .

MY DEAR SIR, London, Sept. 1. 1792. You will be surprised to receive a letter from me dated at this place, which is now a desart, from the general emigration of the beau monde to Bath, Buxton, Tunbridge, Cheltenham, Harrowgate, Sc.zborough, Weymouth, Brightelmstone, Margate, l life. Oct. 31. carcases of whales. a, they often break They sometimes have terrible cont animal, give it a which is general-

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m an acquaintance ident at a distance t retirement of the the busy bustling the capital.

cts of that taste and avoured to explain myself the gratifind a place for it in Sir, your humble

B. A. .

ondon, Sept. 1. 1792. re a letter from me now a desart, from seau monde to Bath, , Harrowgate, Sc.relmstone, Margate, 1792. influence of taste on rural life. 309 and every supposible place of amusement in the kingdom, except to the truly useful and interesting places of their rural abode.

For my own part, I have been here but for a few days, to sell some stock in the three per cents, to invest in the country, and shall soon turn my back upon sin and sea coal, and taste again as soon as possible, the chaste and delightful emotions that accompany the mibi me reddentis. It is really astonishing to observe the fatuity of people of landed estate, who, as if they were universally planet-struck, under the sign of the waterman, seem to have no other idea of summer anusement, but in water-bibbing at these scenes of nastinefs and dissipation. I can easily divine, indeed, the cause of some men flying with their families from London, like hunted stags, that they may escape their followers, by plunging into the deep, like dolphins in the wake of sinking mariners : but by what witcheraft families of reputation, and independent fortune, are induced to forsake the delightful and profitable scenes of their rural residence, I should have been altogether unable even to guefs, had I not myself experienced in the beginning of my life, the cause of this miserable perversion of sense and sentiment, in the want of a system of rational pursuit. Having been originally educated on the automaton plan of fashionable life, I was forced (though an excellent repeater, and even provided with an extensive barrel of the most excellent chimes,) to go every now and then to a watering place, to get myself wound up, and made to go till my paces were run down again ; a dependance which

310 influence of taste on rural life. Oct. 31. at length grew intolerable to me, and put me at last upon trying fairly to wind up myself, which, by God's blefsing, and the strength of my understanding, I was at last enabled to accomplifu.

Now, in the midst of so many notable discoveries, relating to machinery, that are daily published for the gratification of the public, and the benefit of trade and manufactures, it may be no ungratefulcommunication for me to make to you, as my friend, that I have ascertained the *primum mobile* of a man of fashion to be fire, and not water.

These falls of water at the various places of public resort, which I have mentioned, make men and womenago, but they cannot wind them up, which I found to my fatal experience; but after a certain desiccation of the human frame, after having been drenched in mineral waters, with the constant difsipation which goes on after the humefaction, a coldnefs ensues, which probably arises from the effects of evaporation. But action and re-action, being equal and contrary, as has been observed by the great Sir Isaac Newton, a hot fit succeeds, and if no water, or redundancy of any liquid whatsoever, takes place, then, and in that case, an elastic flame is kindled, and the regular paces are resumed, and return into their due situations; which was the thing to be demonstrated.

Among your multifarious communications, directed towards the improvement of your country, I should be sorry to deny you the advantage of this accidental but important discovery of your old and faithful friend; and I give you my free permission to make it generally known to the people, in whatever *life.* Oct. 3r. and put me at last syself, which, by of my understandplifh.

bable discoveries, aily publifhed for and the benefit of be no ungratefulyou, as my friend, a mobile of a man

us places of public take men and woup, which I found a certain desiccaing been drenched onstant difsipation on, a coldnefs enthe effects of evathe great Sir Isaac in o water, or re-, takes place, then, s kindled, and the urn into their due be demonstrated.

nunications, direcf your country, I advantage of this ry of your old and free permission to cople, in whatever 1792. influence of taste on rural life. 311 method you shall think most persuasive and effectual.

I have now the heartfelt satisfaction of seeing my wife and children going regularly and profitably by fire, and not by water ; and though the original discoverer of this astonishing refsort interieur, for moving the human mind, I am so far from thinking of applying for a patent to secure the profit of the invention to myself and family, that I shall put this letter into the post office, without a pang of regret at having let the secret out of my polsefsion. I cannot, , help however expecting that the parliament of England, who have given my old acquaintance and eleve, William Forsythe, three thousand pounds, for a mixture of cow dung and old rubbish, to restore fruit trees to their bearing, may be induced, on a proper . application, to give me a reward for a mixture of common sense and dear bought experience, to restore country places, and country gentlemen, to their proper bearing, without any ablagneation, .incision, or disturbance whatsoever.

I hope to get down to the country next week, to see my wheat put into the ground, and to attend our approaching meeting for our new inland navigation, when I shall send you a more particular account than I have done hitherto, of my experiment, relating to the sertilization of land by leguminous crops, and the economy of manure by the drill: in the mean time I must tell you an ingenious plan my wife has fallen upon, to promote the happiness of the lower sort of people in this neighbourhood.

312 influence of taste on rural life. Oct. 31. She has caused to be printed and circulated, a set of recipes for comfortable daily fare, in wholesome savoury food, prepared from cheap materials, two or three to chuse out of, for each day of the week.

She has therein accurately described the methods of making excellent pottages of potatoes, seasoned with herrings, or with soy; which last condimentary liquor fhe has contrived to prepare from our own leguminous plants, of carrots, of onions, of pease, of coleworts, of cabbages, of lettuces, of beets, and of turnips.

She has there it the method of rendering their houses comfortation of means of flues, or little portable stoves, and has added a number of little useful remarks, relating to the prevention of disease, by cleanliness, temperance, the use of ales, and nourifhing liquors, instead of ardent spirits; and concluded the whole with some plain and pertinent advices on the subject of morals, and the education of children; not without some excellent hints relating to industry and general economy. While thus employed it is surprising to see the progrefs the has made in gardening, and the knowledge of garden crops cultivated in the field; and by attention to the habits and wants of the people, is as fit to write a good statistical account of the parifh and constry as any clergyman in Scotland.

While my help mate is thus articously employed, in riding her little pad about the dears, I am scouring the fields on my charger of a hobby horse, and smoaking along the roads, to look at bridges, and various objects of rural police, when I can find leil life. Oct. 31. circulated, a set re, in wholesome materials, two or of the week.

ibed the methods potatoes, seasoned last condimentary from our own lenions, of pease, of a, of beets, and of

of rendering their ues, or little porber of little useful ion of disease, by ales, and nourifhts; and concluded trinent advices on ation of children; relating to industhus employed it he has made in garden crops cultivato the habits and trite a good statisattry as, any clergy-

denrs, I am scoua hobby horse, and k at bridges, and hen I can find lei5.792. influence of taste on rural life. 313 sure from farming and literature and social intercourse.

The other day when I had come home from a fatiguing excursion, and was not in the best humour in the world, my wife took up the Seasons of Lanbert, and by way of comforting me, read me the following pafsage from them, with which I fhall conclude this Alexandrian epistle.

Heureax ! qui loin du monie, utile à sa patrie.
W fait maître des biens, en respecte les loix,
Et decobant sa tête au fardeau des emplois,
Aimé dans son domaine, inconnu de sea maîtres,
Habite le donjon qu'habitoient ses ancêtres!
De l'amour des honneurs il q'est point devoré;
Sans craindre le grand jour, content d'être ignoré,
Aux vains dieux du publie il laifse leur statucs,
Par l'envie et le tems si souvent abattues:
In ne peut être en buitte à ces vaies projets,
Qui sauvent de la vie empoisonnent les restre;
Hot set être en buitte à ces revers funstes;
Par leure être en buitte à ces revers funstes;
Par leure être en buitte à ces revers funstes;
Me peut être en buitte à ces revers funstes;
Par leure de la vie empoisonnent les restre;
Elever sus resuparus, embellir sen jardin;
Par un chemin facile, et qu'il suivra toujnues.
Ha voit les portraits de aces soges areus;
Ha voit les portraits de ses pointe;
Merent point ass fante, ll veut vire comme eux;
Hargards souvent ces images si chbre;
Margards souvent ces images si chbre;
Your xi.

314 the effect of water on machinery. Oct. 31.

TO THE MEMORY

ROBERT ADAM, ARCHITECT,

OF A RESPECTABLE TAMILY,

Long remarkable for producing worthy and useful citizens; And which in him and his surviving brother, JAMES,

HAS EXHIBITED A FINE TASTE IN ABCHITECTURE,

Compressed and limited by the defect of it in these Kingdoms, which would not permit Them to exercise, in its full extent, that noble idea of simplicity and grandeur of Controsition which appear in their original designs,

THESE SLIGHT OBSERVATIONS AND HINTS ON TASTE,

ARE DEDICATED BY THE AUTHOR.

THE EFFECTS OF WATER ON MACHINERY.

HINT. ON THE BEST WAY OF APPLYING WATER TO MACHINERY AS A MOVING POWER, IN A LEVEL COUNTRY, WHERE NO KIND OF CASCADES IS TO BE MET WITH.

Continued from p. 257.

In the foregoing part of this elsay it has been flown, that plain float boards can never be employed with economy on whecls that are to be moved by water, where a considerable fall can be commanded. But the case is reversed in a level country; for it is upon plain float-boards, alone, that water can be made to act as a power, for the moving of machinery, where advantage is meant to be taken of the gentle flow of a current without falls.

The enlarging the breadth of the wheel has also been condemned, as rather hurtful than beneficial,

binery. Oct. 31.

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nd useful citizens; ing brother,

ARCHITECTURE,

t in these Kingdoms, ise, in its full extent, deur of Composition

HINTS ON TASTE, E AUTHOR.

N MACHINERY.

WATER TO MACHINERY

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y it has been flown, be employed with be moved by water, *pommanded*. But the cy; for it is upon er can be made to act machinery, where of the gentle flow of

the wheel has also ful than beneficial, **1792.** the effect of water on machinery. 31, where a fall of water can be commanded. But in a a flat country this rule also is reversed; for where the current is gentle, it is a rule without exception, that the broader the wheel is, or in other words, the longer the float-boards are, with the greater force will the water act upon machinery as a moving power.

In all cases of this kind, also, the wheel, for obvious reasons, ought to be made of as large a diameter as can be conveniently done.

In fhort the float-boards ought to be of such a length as to go acrofs the whole breadth of the stream; and were it ten, twenty, or thirty feet in breadth, the wheel ought to be of the same breadth, having supports for the axle at each side of the river.

Where the breadth of the wheel is very great, it will be obvious that there ought to be two, three, or more wheels fixed upon the same axle, all of the same diameter, for the purpose of fixing the floatboards, and keeping them firm in every part.

Wherever water is found to move forward with a progrefsive motion, it descends from a higher to a lower situation, by reason of the prefsure of its own weight always tending towards the lowest place. The greater, therefore, the inclination is of the surface over which it flows, the greater will be its rapidity; and, in proportion to the quantity of water moving forward, will be its strength, when moving with the same degree of velocity.

While water is thus moving, if any object be laid across the stream, it will either stop the current, so as to form a dam, or it will be carried down the stream.

the effect of water on machinery: Oct. 31. 316 with the same degree of velocity, nearly, that the water itself, moves. If, therefore, the float-board of mill wheel that is moveable upon its center, be laid acrofs a river, so as to prevent the water from pafbehind sing, it will operate as a dam, till the w shall rise to such a height; as, by its p that upon the upper side of the float-board, it shall overcome the whole resistance made by the machinery. Whereever this happens, the float-board will be forced to give way and suffer the water to pass ; the succeeding float-board will be made to yield in its turn ; and so on, till a rotatory motion be given to the wheel, that must continue as long as the water fhall continue to flow with the same degree of force.

The principle on which machinery might be turned in these circumstances, is so excessively clear, that many persons will be surprised it never has been carried into practice in this country ; bat when we advert that the power of water, where the fall is considerable, is so much greater than where its. motion is lefs rapid, we will not be surprised that mankind fhould have first thought of constructing machinery only where a considerable fall could be obtained; and, when these mills came to be generally used, and the mode of managing water in these circumstances familiar to every body, it would occur at the first glance, that a large body of water, moving slowly, could not be managed with ease in the same way; and of course little attention to sluggift streams, as a moving power, would be given. The difficulties which would thus present themselves, on a superficial view of the subject, might thus appear to be insurmountable, when

Oct. 31. nery. arly, that the waie float-board of . its center, he laid water from pafbehind the w its p cloure upon shall overcome the chinery. Wherewill be forced to oafs; the succeeddin its turn; and iven to the wheel, water fhall contiof force.

nery might be turexcefsively clear, d it never has been try; bat when we here the fall is conwhere its. motion ised that mankind ructing machinery ould be obtained; generally used, and hese circumstances occur at the first noving slowly, could e same way; and of reams, as a moving culties which would perficial view of the surmountable; when 1792. the effect of water on machinery. 327 they were in fact so easily to be obviated, as scarcely to deserve the name of obstructions at all; as will, I trust, appear from what follows.

The principal reasons why no attempts have been made to construct mills on this plan, are the following:

1st, Were a mill to be placed upon the main body of the stream, or river, there could be no way of guarding against the effects of inundations, by means of sluices, as at present, which turn off as much of the water into another channel, as shall be at any time superfluous; nor could the flow of the water towards the wheel be entirely prevented when the machinery is meant to be stopped.

To obviate both these difficulties, it would only, however, be required to raise the supports on which the gudgeons of the wheel rest at either end, to such a height as to overtop the wheel; and to make these gudgeons be received into an eye, fixed in a piece of wood, that admitted of being raised upwards at pleasure, in grooves provided in the cheeks for that purpose. From each of these boxes let a chain be carried upwards, and passed over a round axle, placed at a sufficient height above the wheel; on one end of which let there be fixed a whoel with spokes, like the wheel of a crane; by means of which, the water wheel might be raised entirely out of the water, whenever it fhould be wanted to stop the mill, either on account of a flood or otherwise *.

• As J do not mean here to explain *particulars*, but merely to develope *trinciples*, it is unnecessity to trouble the reader with a detail of the mole in which this might be effected, which could not be sende-

318 the effect of water on machinery. Oct. 31.-2d, A second inconvenience would arise from the increased rapidity of the current during land floods, which would, on these occasions, augment its power so much, as to make the wheel go with an inconvenient degree of vilocity; while the wheel would at the same time, by interrupting the current, raise the water behind it to an inconvenient height.

The last of these evils would be entirely removed, by lifting the wheel so far up, by the forementioned contrivance, as to allow the water to pafs free below it. By the same means, its power upon the wheel could be moderated, by letting only a small part of the float-board dip into the water*. If, however, this contrivance alone fhould not be ound to answer the purpose altogether, many other contrivances, simple enough, might easily be adopted to moderate the rapidity of the current at this place, which it is unnecefsary here to enumerate.

Were mills on this principle erected on all the streams that easily admit of it in Britaiu, machinery, turned by water, might be introduced into many parts of the country, that have been hitherto deemed incapable of any thing of that sort. In rivers that flow through countries which are comparatively flat, this species of mills would answer better than in the rivers that flow through mountainous countries; because these rivers are not so subject to sudden

red intelligible to ordinary readers, without many figures. To these who are acquainted with mechanics the above hints will be perfectly sufficient.

• It is scarcely nee-fsary to observe, that this elevation could occasion no derangement to the machinery of the mill, provided an upright spoked trundle of sufficient length, were temployed for satching the teeth of the inner wheel. chinery. Oct. 37.ould arise from the during land floods, , augment its powl go with an inconthe wheel would at the current, raise mient height.

e entirely removed, the forementioned r to pafs free below wer upon the wheel only a small part of cer*. If, however, ot b' ound to anny other contrivanbe adopted to modeat this place, which ate.

e erected on all the Britain, machinory, roduced into many been hitherto deemsort. In rivers that e comparatively flat, er better than in the ntainous countries; o subject to sudden

nany figures. To those who will be perfectly sufficient.

this elevation could occasion II, provided an upright spored for catching the teeth of

the effect of water on machinery. 1792. 310 and violent floods as a mountain stream ; and cousequently the machinery could be regulated with lefs trouble. In mountainous countries, however, there is lefs necessity for adopting this contrivance, as falls of water can there be commanded ; but even in hilly countries, the streams that ifsue from lakes, of a large size, are peculiarly proper for this purpose, as being lefs liable to sudden inundations than other streams .--- The Leven, from loch Lomond to Dumbarton,-the Awe, from loch Awe in Argylefhire to loch Etive,-the Locby, and the Nefs in Invernefs. thire, are large rivers of this kind, on which an infinite number of mills might be erected. On' such large streams as these, one wheel might always serve two mills ; one on each side the river. A number of lefser streams are to be found in every part of the country, on which mills of this kind might be erected, on a scale more suited to the general ideas entertained on that subject at present, than these would be; for till enterprises of this sort shall become more familiar than they now are, those first mentioned would appear too gigantic undertakings for man to atchieve. How long will it be before man thall come to know the full extent of human powers!

Upon this principle, water, as a moving power, might be commanded in many parts of Scotland, to such an extent, as, comparatively speaking, might be called infinite; and possessing advantages for turning machinery, that cannot be commanded to an equal degree, perhaps, in any other part of the world. But as mankind are apt to be startled, when things that they have been accustomed to look upon as impossible; are proposed, I shall not for the present advance

310 on the viper. Oct. 31. farther in this line of disquisition, reserving what farther might be said on this subject till another occasion.

HINTS ON THE GENERATION OF THE VIPER.

The following extracts respecting the natural history of the viper, have been transmitted to the Editor by a correspondent to whom he lies under very particular obligations for this and many former favours.

Extracts from Mr White's natural history of Selborne, publified 1789, relative to the viper.

To Mr Pennant.

" PROVIDENCE has been so indulgent to us, as to allow of but one venomous reptile of the serpent kind in these kingdoms, and that is the viper. As you propose the good of mankind, to be an object of your publications, you will not omit to mention common salad oil, as a sovereign remedy against the bite of a viper. As to the blind worm, (anguis fragilis, so called, because it snaps asunder with a small blow,) I have found upon examination that it is perfectly innocuous. A neighbouring yoeman (to whom I am indebted for some good hints,) killed and opened a female viper about the 27th of May : he found her filled with a chain of eleven eggs, about the size of those of a blackbird; but none of them were advanced so far towards a state of maturity, as to contain any rudiment of young. Though they are oviparous, they are viviparous also, hatching their young within their bellies, and then bringing them forth : . whereas snakes lay chains of eggs every summer in my

Oct. 31. n, reserving what ect till another oc-

OF THE VIPER.

history of the viper, have ondent to whom he lies many former favours.

bistory of Selborne, viper.

lgent to us, as to of the serpent kind ne wiper. As you e an object of your mention common against the bite of (anguis fragilis, so ith a small blow,) that it is perfectly man (to whom I killed and opened May : he found her out the size of those were advanced so to contain any rure oviparous, they eir young within em forth : . wherery summer in my

on the viper. 1792. 321 melon beds, in spite of all that my people can do to prevent them; which eggs do not hatch till the spring following, as I have often experienced. Several intelligent folks assure me, that they have seen the viper open her mouth, and admit her helplefs young down her throat on sudden surprises, just as the female opofsum does her brood into the pouch under her belly, upon the like emergencies ; and yet the London viper catchers insist upon it, to Mr Barrington, that no such thing ever happens. The serpent kind eat, I believe, but once in a year; or rather but only just at one season of the year. Country people talk much of a water snake; but I am pretty sure without any reason; for the common snake (colubur natrix) delights much to sport in water, perhaps with a view to procure frogs and other food."

To the bonourable Daines Barrington, esq. DEAR SIR,

" In August 4. 1775, we surprised a large viper, which seemed very heavy and bloated, as it lay in the grafs, basking in the sun. When we came to cut it up, we found that the abdomen was crowded with young, fifteen in number ; the fhortest of which measured full seven inches; and were about the size of full grown earth worms. This little fry ifsued into the world with the true viper spirit about them, showing great alertuefs as soon as disengaged from the belly of the dam. They twisted, and wriggled about, and set themselves up, and gaped very wide when touched with a stick, flewing manifest tokens of menace and defiance, though as yet they had VOL. XI. SS t

Oct. 31. on the vi; er. 322 no manner of fangs that we could find, even with the help of our glasses. To a thinking mind, nothing is more wonderful than the early instinct which impresses young animals with the notion of the situation of their natural weapons, and of using them properly in their own defence, even before those weapons subsist, or are formed. Thus a young cock will spur at his adversary before his spurs are grown ; and a calf or a lamb will push with their heads, before their horns are sprouted. In the same manner did these young adders attempt to bite before their fangs were in being. The dam, however, was furnished with very formidable ones, which we lifted up, (for they fold down when not used.) and cut them off with the point of our scifsars. There was little room to suppose that this brood had ever been in the open hat they were taken in at the air before; ? when the perceived the danger mouth of the was approaching ; because then, probably, we fhould have found them somewhere in the neck, and not in the abdomen."

Extracts from Pennant's Britifb zoology, respecting the viper.

"They conceive a perfect cgg within ; but bring forth their young alive.

"Providence is extremely kind in making this species far from prolific; we having never heard of more than eleven eggs being found in one viper; and those are as if chained together, and each about the size of a blackbird's egg.

"They copulate in May, and are supposed to be about three months before they bring forth.

Oct. 31. d, even with the mind, nothing is which imprefsus the situation of them properly in se weapons subcock will spur e grown ; and a ads, before their nanner did these heir fangs were in ruished with ved up, (for they them off with the ittle room to supeen in the open taken in at the eived the danger obably, we fhould ie neck, and not

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d in making this ig never heard of nd in one viper; r, and each about

re supposed to be ng forth.

1797. on the viper. 32,3 "They are said not to arrive at their full growth in lefs than six or seven years; but they are capable of engendering at two or three.

"The viper is capable of supporting very long abstinence; it being known, that some have been kept in a box six months without food, yet did not abate of their vivacity. They feed only a small part of the year; but never during their confinement; for it mice, their favourite diet, fhould at that time be thrown into their box, though they will kill, yet they will never eat them. Their poison decreases in violence, in proportion to the length of their confinement.

"These animals when at liberty, remain torpid throughout the winter; yet, when confined, have never been observed to take their animal repose.

"The viper catchers are frequently bitten by them in pursuit of their businefs; yet we very rarely hear of the bite being fatal. The remedy, if applied in time, is very certain; and nothing else but sallad oil, which the viper catchers seldom go without. The axungia viperina, or the fat of vipers, is also another. Dr Mead suspects the efficacy of this hast, and substitutes one of his own in its place; but we had rather trust to vulgar receipts, which perperual trials have fhewn to be infallible.

"The ancient Britains had a strange superstition in respect to these animals; of which there still remains in Wales a strong tradition"."

· See Pliny, book 39, chap. iii.

324 on the viper. Oct. 31. From another correspondent I have been favoured with the following fact, which perfectly corresponds with the foregoing remarks.

SIR, To the Editor of the Bee.

" An acquaintance of mine who lives in the Highlands of this county, had been telling me, scme time ago, that he had killed a serpent which had young ones in it; but as I did not recollect the particulars of his story, I sent for him since I read G. R. H's paper, and he is now here : he says, That as he was one day returning home, he saw a viper among the heath, which he struck with his hand staff, and carried home half dead upon the same : that upon coming near his house, he threw it down, and struck it with a spade, and divided it into two; upon which there sprung out a number of small creatures, very lively and nimble, which were undoubtedly the young of that viper. He says he continued looking at them till they had travelled a considerable distance, (by no means stuck together) and then he killed them, for fear that they might escape and live. The old one was about twenty inches long, of a blackifh colour, with ugly yellow streaks; the young ones were all of a blackish colour, about five inches long, of the thickness of a packthread; the head considerably larger than the rest. He is not quite sure as to their number; but is very certain it did not exceed twelve. If nothing more satisfactory has come to hand, from any other quarter, concerning the viper, the above may be agreeable to Oct. 31. e been favoured ctly corresponds

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es in the Highlling me, scme pent which had ecollect the parim since I read : he says, That he saw a viper with his hand upon the same : e threw it down, led it into two; umber of small which were un-He says he contravelled a conck together) and hey might escape it twenty inches yellow streaks; ifh colour, about of a packthread; the rest. He is but is very cerothing more sany other quarter, y be agreeable to 1792. moral reflections. 325 many of your readers, and may be depended upon as truth. I am, Sir, your most humble servant, Sutherland, Sept. 24. 1792. TH. R*.

MORAL REFLECTIONS BY MIRA.

For the Bee.

THERE is a gentlenefs even in the enjoyment of the country, which seems to charm, without engrofsing the mind; and to breathe over it a grateful calmnefs, more approaching to the happiness of the Divinity, in proportion as it appears lefs a sensation of pleasure in ourselves, than a mild and celestial inclination of diffusing it to others. Even the very breezes seem fraught with benevolence and purity, as they blow over the landscape, brightening every beauty, without even crushing the humblest; and diffusing to mortal bosoms, a harmony not unlike that of their native heaven ! Enthusiastic as this description may seem, it is not merely visionary, since happier days have frequently realized it : nor did I then ever see the setting sun, with all those glorious scenes which succeed his departure of a summer evening, without feeling myself at once more sensible of the blefsings of this life, and more worthy of those of the next. There have indeed occurred whole weeks, in which I might say, with Hamlet, "It

• The phenomenon described in the letter of G. R. H. p. 5. still remains to be explained. When any person shall observe one of a similar nature, it will be obliging to communicate it to the Editor.

326 moral reflections. Oct. 3t. goes so heavily with my disposition, that this goodly frame, the earth, seems to me a steril promontory. This most excellent canopy, the air,—this brave overhanging firmament,—this majestical roof, fretted with golden fires,—Why? it appears to me only a foul and pestilent congregation of vapours !" But the mind, however warped, cannot, if naturally good, fail to be restored by a creation so similar : and I have long since been convinced, that if integrity isnot happinefs, it is the only thing that can supply its place.

I wander here in search of health; and feel the blefsed sun warm at my bosom; or turning to the breeze, fancy I once more inhale strength and happinefs. Yet it is not instantaneously the exhausted heart can resume its capacity for happinefs: fears have been so long its predominant expression, that joy, even sometimes involuntary, borrows that language.

The cause remov'd, habitual griefs remain, And the soul saddens with the use of pain.

Love, invigorating power ! thou who canst alone revive the heart, withered by worldly cares aud mental struggles ! through every tie do I look up to thee with gratitude ! whether tremulating from the soft lispings of infancy, the tender cautions of age, or the more dangerous and tumultuous accents breathed from lefs matured feelings. Still in a well governed mind art thou the source of good !--humbling its vanities, correcting its selfifuncfs, bidding: Oct. 3t. on, that this goodly steril promontory. air,—this brave oestical roof, fretted bears to me only a of vapours!" But t, if naturally good, so similar : and I that if integrity isthat can supply its

ealth; and feel the or turning to the strength and hapously the exhausted or happinefs: fears ant exprefsion, that borrows that lan-

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u who canst alone worldly cares and tie do I look up to mulating from the er cautions of age, tuons accents brea-Still in a well goe of good !--humselifhnefs, bidding 1792. moral reflections. 32 it taste the blefsing of bestowing happines; and, finally, the sweet reward of receiving it.

Happy that child to whom esteem descends as an inheritance! who comes into the world the beloved of many hearts! Whose virtues are supported by example, encouraged by emulation, and who receives, in the name of those from whom fhe sprung, the pledge of their being respected! Allow me to take more than a nominal interest in an offspring so precious; and teach her carly to think fhe has found a second mother in the sincere and affectionate aunt.

However desirable the various advantages or pleasures of life may at different periods of it be, it is from its rational and social duties alone we must derive our truest felicity; nor are we ever so unfortuncte as in being deprefsed beneath, or so guilty, as in supposing ourselves elevated above them.

The human mind, created for, and accustomed to action, only lang hes in a gloomy inertity without it.

Man, though born with the vigorous and marking virtues which distinguifh his career through life, frequently suffers the humbler ones that most constitute its happinefs, to be crufhed by education and custom. These, it is the part of woman to preserve; and while from his example the acquires candour, stability, and fortitude, the must inculcate by her own, the no lefs useful qualifications of gentlenefs, and self denial.

328 particulars respecting Sardinia. Oct. 31.

PARTICULARS RESPECTING SARDINIA. SIR, To the Editor of the Bee. Kites.

CETTI, in his natural history of Sardinia, informs us, that a peasant of that country cannot easily be persuaded to shoot a kite, as he firmly believes that his gun will be uselefs ever after, or that his wife will die within a year.

Locusts.

That, in 1769, the locusts had so multiplied upon the island, 25 to darken the air in their flight, and desolate whole fields. They even infested people in their houses, and spread a general alarm. The crows, at last, were observed to fly against them in troops, and made such a havock among the winged clouds, that they soon disappeared.

Afses.

The same author observes, the Sardinian afses do not in general exceed two feetten inches in height. Perhaps they may have dwindled from not being sufficiently crofsed, or from the constant drudgery to which they are subjected. The water in the towns and villages, owing to some cause that has never been properly ascertained, is seldom drinkable. A great many of these dwarfith afses are therefore constantly employed in bringing that necefsary article of life from the neighbouring fields.—The grinding machines are almost all driven by this small breed, in so much, that in the Sardinian dialect, macinatore, and asinello are synonymous terms. I am, Sir, your humble servant, and constant reader, R. W. ardinia. [Oct. 31.

IG SARDINIA. Ber.

Sardinia, informs y cannot easily be rmly believes that c, or that his wife

so multiplied upon n their flight, and en infested people meral alarm. The ly against them in among the winged l.

Sardinian afses do ches in height. Pertot being sufficiently gery to which they towns and villages, ever been properly A great many of constantly employticle of life from the ing machines are ald, in so much, that we, and asiaello are ur humble servant, R. W.

POETRY. THE GHOST OF RENTONHALL; OR A TALE OF OTHER TIMES. For the Bee. " WEEP, Ellen, till your eyes run dry, "Your valiant lover's slain; " From tilt and tournament he'll ne'er "A congror come again." Ah! is he gone? the flow'r of youth! And did you ace him fall? "Yes, and around his grave doth flect "The ghost of Rentonhall. II When Percy with his hostile hands Did sack fair Tweed's dale, Young Renton fought, till all his foes In heaps around him fell. Now he is dead and many a swain Lamenteth for his fall \$ Dim are his eyes, and o'er him screams The ghost of Rentonhall." "His face was like the noon-day sun • In majesty so fair; • And as fine-burnifh'd threads of go'd And as necessarily defined as the second of gold Did hang his yellow hair. His faape was like the mountain pine, So graceful and so tall; I'll go and mourn over hims, nor fear The ghost of Rentonhall. 27 .4 His rising fame inflam'd the cours, That base and venal train, That base and venal train, And they did vow, with one consent, To have him sudden slain. "Tis tortuows envy that has made My valiant lover fall, And laid him in the flade, where stalks The ghost of Rentunhall. Dark was the hour; the midnight meon Had hid her silver beam; And through the woods, as Ellen went, The birds of prey did scream; VOL. xi. тт t

Oct. 21. 330 peetry. Till sweet as e'er a syren lay, On pafsengers did call, Fair Ellen's name was echoed by The ghost of Rentonhall. Sweet Ellen fhook in every limb, She reelled to and fro ; So fhakes the lily's slender stean When sizes heare between When risen breezes blow : Light grew her head, her breast did beat, She totter'd to her fall, But found herself supported by The ghost of Rentonhall. The ghost of Kentonhall.
V11
O gentle Ellen know the voice
To which you listen'd have;
No phantom J, nor fheeted ghest;
Come from a midnight grave.
I chose this method to elude
Malicious en mise all;
Mana and the provide the provident for the provide the provident for the provide the provident for the provident fo " My bands are arm'd, nor longer I'm " The ghost of Rentonhall. Viti Viti He died unto king Robert's court *, Who punified with pain, The guileful band, who had contriv'i To have the hero slain. He fione an ornament to kings, In fight or splendid .ball, And Ellen long and happy blefs'd The ghost of Rentonhall. Trocedside, A.L. Sept. 24. 1792. TO LOVE. At L powerful love I dance o'er the scene, And chear our hearts with joy serene; Stell on my soul thou soching pow'r, And fhed refinement's heav'nly balm; Make soft the winter's hoary hour, That robs us of the summer's calm: Then sweet delight we will inhale Though snelly shows drift o'er our vale. + Robert II. of Scotland.

Oct.	21.	

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The baron of Hægi was a gentleman of the territory of Vinterthur in Switzerland; he was possessed of several kefs, and had his castle near the city. This gentleman, who lived about the year 1300, made agriculture his ordinary occupation. His plough was drawn by fine horses. His son, who was a handsome young man, drove them with the whip in his hand, while the father, with grey hairs, opened the bosom of the earth, and traced the furrows. A duke of Austria, going on horseback from Rapperschweill to Vinterthur, was surprised at the distinguished air of the labourers, and the beauty of their horses. He stopped, and turning towards the grand master of his household : I have never seen, said he, so handsome peasants, and horses so well fed, labour the fields. Do not be surprised at it, my lord, replied that officer ; these are the baron Hægi and his son. There is the ancient castle of their family, at the foot of the hill; and if you doubt it, you may convince yourself of it to-morrow; when you will see them come and offer you their services. In fact, the next day, the baron of Hægi; accompanied by seven of his people, all on horseback, came to Vinterthur to pay his respects to the duke, who did not fail to aff: him if it was him he had seen the day before, following a plough superbly equipped. Yes, my lord, replied the baron with dignity; after a war for the defence of one's country, I think there is no occupation more worthy of a gentleman than that of cultivating his own lands, and I give the example of it to my son. The duke could not but admire the old man ; he gave him the most flattering reception, and loaded his son with carefses. The ancients had the same idea of agriculture ; omnium rerum ex quibus aliquid exqueritur, nibil est agricultura melius, ub:rias, homine libero dignius.

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Oct. 31. account of remarkable trees.

REMARKABLE TREES.

[Extracted from Sir John Sinclair's statistical account of Scotland.]

Afb tree in the parifb of Bowbill.

THE afh tree in the church yard of Bowhill, deserves a particular description, being no lefs remarkable for its uncommon size, than for its extensive spreading, and the regularity of its branches. The trunk is nine feet in length; the girt, immediately above the surface of the ground, is twenty-five feet; and about three feet above the surface, it measures nineteen feet and a half; and, at the narrowest part, eighteen feet. It divides into three great branches; the girt of the largest is eleven feet; of the second, ten; and of the third, nine feet two inches. The branches hang down to within a few feet of the ground, and, from the extremity of the branches on the one side, to that of those on the other, it measures no less than ninety-four feet.

Another.

There is another large ash tree in the parish, though it is greatly decayed, only the trunk, and part of some of the branches remaining. The trunk is about eleven feet in length ; the girt 'immediately above the surface of the ground, is thirty-three fect ; at the narrowest part it measures nineteen feet ten inches. The proprietor has lately fitted up a room in the inside of it, with benches around, and three glafs windows.

The diameter of the room is eight feet five inches, and from ten to eleven feet high.

Parify of Defkford, county of Banff.

In an orchard adjoining to an ancient castle there is particularly an all tree, which measures in girt twentyfour fect five inches and a half. It is called St John's tree, from its vicinity to a chapel of that name. There is ale trees. Oct. 31.

ES. statistical account of

Bowbill.

Bowhill, deserves a remarkable for its unpreading, and the reis nine feet in length; urface of the ground, eet above the surface, and, at the narrownto three great brann feet; of the second, nches. The branches ne ground, and, from e one side, to that of than ninety-four feet.

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feet five inches, and

of Banff.

ncient castle there is ures in girt twentycalled St John's tree, name. There is a1792. account of remarkable trees. nother ash tree in the same orchard, which measures in girt twelve feet three inches and a half, having a shank twenty feet high, of nearly the same dimensions ; this afh is called young St John.

Holly tree in the same parifs.

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There is also a holly, perhaps the largest of its species in this country. It measures, at the distance of two feet from the ground, eight feet four inches and a half in girt. In several places of the parish, hedges have been planted; and they also thrive amazingly when they receive proper care and attention.

Yew tree in the parifb of Ormiston in East Lothian.

In lord Hopeton's garden at Ormistonhall there is a remarkable yew tree. Its trunk is eleven feet in circumference, and twenty-five feet in length ; the diameter of the ground overspread by its branches, is fifty-three feet; and there is about the twentieth part of an English acre covered by it. This tree is still growing in full vigour, without the least symptom of decay in any of its branches, which increase yearly in length about an inch. There is no tradition that can be depended upon Tor exactly ascertaining its age; but from the best information it cannot be under two hundred years old. It seems rather more probable to be between three and four hundred years old.

A CHARADE WRITTEN BY THE RIGHT HONOURABLE CHARLES JAMES FOX, ADDRESSED TO LADY SPENCER, Communicated by a respectable correspondent.

PERMIT me to intrude for once, uncalled, into your ladythip's presence, and, by dividing myself, add greatly to my consequence. So exalted am I in the character of my

Oct. 31. a charade. 334 first, that I have trampled on the pride of kings, and the greatest potentates of the earth have bowed down to me; yet the dirtiest kennel in the dirtiest street is not too foul to have me for its inmate: in my second what an infinite variety! I am rich as the eastern monarch, yet poor as the weeping object of your benevolence ; I am mild and gentle as the spring, yet cruel and savage as the wintry blast. I dare pronounce myself from the ablest, your ladyship's superior, though few are the instances that prove it, and ten thousand are the proofs against it. I am young, blooming, and beautiful; yet old, deformed, and wretched. I am,-but your ladyship is tired, or wishes my re-union,it is done, and my consequence is lost. And I have no merit left but that of remaining, as before, your ladyship's very obedient servant.

A solution of the abave is requested.

QUERIES RESPECTING FRUIT TREES. Sir, To the Editor of the Bee:

It would be doing me and many of your readers a particular favour, if you, or any of your ingenious correspondents, would furnish an answer to the following queries :

What is the most effectual way of preventing young fruit trees running too much to wood? What is the best method of forcing (in the natural ground,) fruit trees to bear early?

It is a pleasant thing, Mr Editor, to reap the fruits of our own labour. I with to do so; and sincerely hope you will those of your very useful and entertaining miscellany. I am your

Old M_____m. }

CONSTANT READER *.

• The Editor withes it were in his power to give satisfactory answers to those queries; all he knows of the matter is, that some kinds of fruit trees naturally begin to bear at a much more early period of their life th. n' other kinds; and that whatever tends to make them grow very lug

Oct. 31.

ide of kings, and the bowed down to me; street is not too foul cond what an infinite arch, yet poor as the I am mild and gentle s the wintry blast. I blest, your ladyfhip's es that prove it, and I am young, blood, and wretched. I ifhes my re-union,lost. And I have as before, your lady-

equested.

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ANT READER *.

give satisfactory answers , that some kinds of fruit early period of their life nake them grow very lug

1792.

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NEW DISCOVERIES.

on manures.

The following three discoveries were transmitted to the Editor by a gencleman who had purchased them at a considerable price, who now publiftes them for the benefit of the public.

First, The artificial manure.

For every acre take,

Dregs of 1	amp o	r trai	n oil,	eight ga	llons	, ІЬ.	L .	s.	đ.
about	-	-	•	•	-	60	0	12	10
Plaister of	Paris,		•	•	•	20		r	
Nitre,	-	-	-	-	-	16	0	10	8
Common s	alt,	~	-	-	-	16	۰.	I	10
						-	-		

Directions.

L. 1 , 5 6

POWBER the nitre, mix the salt and plaister of Paris with it. Take sixteen bushels of dry light earth, lay some of it half a foot thick, then spr kle on plenty of the mixture. Lay another inch of earth, then more of the mixture; and so on, alternately, till the whole is laid together. Turn it, and mix it. Lay the top flat, but with a little ridge all round the edges, and then pour on the oil, so as to cover whole top. After lying a week, let it be tur ed and well mixed; after another week an and mix it ag ; and a, in at the end of the third week. It is then fit for use.

uriantly rather retan : heir fluiting. On his principle, much pruning is in general pernicious ; and over luxuriance of soil w 1, on many occasions, retard the commencement of fruiting ; but where the soil is not rich, though the trees may bear sooner, they will not alterwards seld near an much fruit as if they be nourifhed better.

A man who withes to have fruit soon, ought to pick out the kind of trees that come soon into bearing, which a fkilful nurseryman ought to know. These should be intersperaed with other good sorts that will come in time to yield frait,

236 to the readers of the Bee. Oct. 31. A proper quantity for every field may be made on the spot; and it is best to cover it; because, if dry, it may he sown by the hand.

The dregs of oil, in large quantities, may be had at fifteenpence a gallon, or even perhaps lefs. The plaister of Paris is 6s. or 6s. 6d. per Cwt.

When the manure is used, it is to be thinly applied at sowing time, and the seed and manure harrowed in together. Second.

The addition to the above for dry lands, is 41bs of pearl afhes, which may be mixed with the gypsum and salts. Third, The remedy for the rot in fleep.

Boil one pound of oak bark, and half a pound of hathorn leaves, in sixteen quarts of soft water, till half the liquid is consumed; when cold pour off the clear liquor, and add 100 drops of spirit of sea salt to every quart.

Give each sheep half an English pint every other morning. B. Pike.

TO OUR READERS.

Some late numbers of the Bee have contained a greater proportion of philosophical matter than will probably be agreeable to many of the readers. This was occasioned by a desire to finish the subjects in the same volume in which they are commenced, which the Editor always withes to do, where it seems to be practicable.

As there are now considerable arrears due for this work, especially by persons at a distance, the Editor requests the favour of his subscribers; to make remittances when opportunities offer. The sums due by each individual must appear very trifling to them; but when many small sums are added together, the amount becomes considerable, and of some consequence to the Editor. Few will imagine that the arrears due on this work, could be already greatly above a thousand pounds.

-secola

Oct. 31. Bee. may be made on the use, if dry, it may be

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B. PIKE.

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SHORT CHRONICLE

OF EVENTS.

19. 17.12. Sep

FOREIGN. France.

ings. It is impossible to give transactions are of such a nature as cannot be comprehended without a special detail of particular facts, many of which their authority even while they are of such an atrocious nature as cannot be recounted without horror, nor could be believed were they not authenticated by such concurrent testimonies as prevents the pofsibility of doubting. All we can do, after giving a fhort general review of things, is to state a few of the most remarkable facts that have there taken place within the last fortnight. The national afsembly ever being accused or suspected. since the suspension of the But of all the trans-

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the requisition of any individ: -al who thall choose to demand Since the memorable tenth of them, without hesitation or de-August last, alfairs in France liberation of any soit; they have been in such a state of a- are of course aisregarnarchy, that it is difficult for ded, and every man who has us in our small limits to give the voice of the people for the even an idea of their proceed- day, may set these decrees at defiance with the utmost in puan abstract of them ; for the nity. The generals of the armies are displaced and replaced again, perhaps several times in the course of a week; and have the sanction of the national afsembly is just as long as those under them choose to submit to it, and no longer. La Fayette has effected his escape; Dillon, no one can say whether he has any command or not; Luckner is displaced; Dumourier is the only general in command who has had the singular good fortune to remain for a whole month without

But of all the transacking, has been only a name tions that stain this woeful without real authority. It is period of the history of man, the mere echo of the Jacobin the massacre of the prisoclub; its decrees are issued on | ners on the second of Septem-

ii î

ber, and the butcheries that fol-swere to be confined 'till 'their lowed it are most horribly tran- trial, was the next object of s:endant. Whether it is polsible discussion ; and it was at length tor human nature to attain a agreed that they should be higher pitch of barbarity seems confined in a building called to be at present doubtful; but the temple, to which they were when men have power to act conducted on the 14th; strong without fear of restraint from entrenchments were ordered to the laws, it is impossible to say what they will do.

bistorical chronicle.

- Longwy and Verdun are taken by the Prufsians, with some places of smaller note. Before the capture of Verdun the progrefs of the duke of Brunswick seems to have claimed but little attention at Paris, but that event excited an alarm of the most serious nature. Whether that alarm will have any other tendency than to excite confusion, and pave the way for greater havoc and destruction, is very doubtful. The following are a few of the most remarkable transactions in the order they occurred since our last.

The king, queen, and royal family remained from the 10th to 14th of August under the protection of the national afsembly, when after many deliberations about the proper mode of proceeding with regard to him, it was decreed that delegates should be sent from all the districts of the nation, to form a tribunal for their trial, and that they flould meet for that purpose at Paris on the 20th September.

Where the royal prisoners other tribunal whatever.

be thrown up around it in order to make it as secure as pofsible.

Aug. 17. M. Herault de Schelles, in the name of the Committecof Legislation, presented the plan of a decree for establishing a tribunal to try those accused of criminal proceedings on the 10th of August. This plan was adopted.

The alsembly having then: decreed urgency, decreed as. follows:

1. An electoral body thall be immediately formed to appoint the members of a criminal tribunal to try those accused of having committed crimes on the 10th of Augus', as well as other criminals who may have had any con-

cern in the late tumults. 11. This tribunal shall be composed of eight judges, eight suppleants, two pu-blic accusets, iour registers, eight clerks, and two national commissioners named by the provisionary executive power.

III. The functions of the judges, public accusers, and national commission-ers, as well as those of the direc ors of the juries, of which mention shall be made hereafter, shall be the same as those of the judges of the criminal tri-bunal, the director of the jury, public accuser, and king's commissioner, settled by the law paised respecting ju-ries on the 29th of September 1791. The judges shall pais a definitive sentence, not subject to be reversed by any

be confined till their as the next object of on; and it was at length that they should be I in a building called ble, to which they were ed on the 14th; strong himents were ordered to wn up around it in ornake it as secure as pof-

7. M. Herault de Schelhe name of the Commitegislation, presented the a decree for establishing nal to try those accused inal proceedings 'on the f August. This plan opted.

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bistorical chronicle.

army of M. la Fayette being ad- | ette : mitted to the bar, informed the alsembly, that they were obli- bly that there is just ground ged to make their escape thro' a wood to avoid being seduced by their chiefs, and that they had come to Paris to learn the truth respecting the events of the 10th. They said that M. Vencur had written to the battalions in the name of M. la Fayette to the following pur-

port : "Soldiers! your constitution has been annihilated ! Seditious men have filled the measures of their crimes. They have caused the Swifs soldiers, and the commandant of the national guards, to be alsafsinated. With swords in their hands, they have compelled the legislative body to decree the suspension of the king. Soldiers! choose between the king and Petion."

They added that M. la Fayette withed to make them sign a paper written in the same strain, and requested that the alsembly would prevent the perfidious designs of this general.

M. Merlin presented fifty different pieces to support this accusation.

Two letters, and in particu-

iü There are some other clau-| ced, to corroborate these charses of lefs consequence which gcs, the afsembly immediately are omitted for want of room. passed the following decree of Aug. 19. Some soldiers of the accusation against M. la Fay-

1. It appears to this afsemfor accusation against M. la Fayette, heretofore comman-

der of the army of the north. 11. The executive power shall, in the most expeditious manuer possible, put the present decree into execution; and all constituent authorities, all citizens, and all soldiers, are hereby enjoined, by every means in their power, to secure his person.

m. The afsembly forbids the army of the north any louger to acknowledge him as general, or to obey his orders ; and strictly enjoins that no person whatsoever shall furnish any thing for the troops, or pay any money for their use, but by the orders of M. Dumoutier.

M. Dillon has retracted his orders, and implicitly vields to the new order of things.

Sunday Aug. 19 .- Evening. An address to the army of the north, in the form of a proclamation, was voted, to inform the troops of the nature and causes of the events of the 10th instant, and prevent them from being misled by false suggestions.

Several complaints were relar one from the commissioners ceived against the conduct of sent to the army, being addu- general Dillon, and the decree

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that he had lost the corfidence | bers opposed the decree passe of the nation, and ought to be yesterday. superseded by the executive council, was renewed.

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Aug. 21. M. Servan, the minister at war, announced that M. la Fayette, with his staff-officers, had emigrated on the night between the 19th and 20th.

Aug. 23. The minister of war notified, that Luckner and Dillon had been deprived of their command, as neither of them seemed much disposed to fight for the new order of things. Mareschal Luckner, in a letter to the minister, said, " I cannot conceive the motives of the afsembly's conduct towards M. la Fayette, -he swore fidelity to the nation, the law, and the king. I took the same cath in the face of all France." -The minister added, that Mareschal Luckner had been succeeded in his command by general Kellerman.

Aug. 24. M. Benvistrod moved, that all the priests who ought to have taken the oath required by the law of Dec. 20. 1790, as well as those who, not being subject to the oath of public functionaries, ought to have taken the civic oath prescribed by the law of September 3. 1791, and who have not transported out of the 'kingdom.

After a long debate, the afsembly decreed, " that if the refractory prieses did not quit the kingdoin in fifteen days, they flould be transported to

Guiana in South America. M. de la Port, intendant of the civil list, was tried on the 22d, between one and two o'clock. He was condemned to be beheaded, and the sentence was executed the same evening in the Place da Carousel.

We have just received intelligence here that the Ottoman Porte has forbidden all fhips under French colours to enter the Turkish harbours.

Aug. 26. M. Jean de Brie presented the following proposal for destroying the kings and generals who are now fighting against the liberty of France. He requested permission to raise a body of 1200 volunteers, who shall bind themselves by an oath to go and attack individually and collectively, and by every possible means, the kings and generals now at war with France. These tyrannicides to be called (les Douze Cents) " The twelve hundred," to be yet taken their oaths, shall be armed with poignards and pistols.

This plan was decreed, and Aug. 25. The discussion con- the assembly were going to cerning the refractory priests settle the pay of these despera-being resumed, several mem- does, when Mefs. Verniant, osed the decree passe

a long debate, the afdecreed, " that if the ry prieses did not quit gdoin in fifteen days, ould be transported to in South America.

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bistorical chronicle.

was referred to a committee. be dispatched to collect all Aug. 29. A letter from the am- those patriotic citizens who bafsador to the Helvetic diet, may be desirous of marching to stated that the Swifs were incen- the frontiers. The following sed at the accounts received of proclamation has been ifsued : the proceedings of the 10th, and that nothing was heard the gates of the cavital. Veramong them but exclamations of vengeance. The ambafsador complained of the delays in transmitting to him the necelsary sums of money. Ordered that the executive power forward the money to the ambafsador, and that the diplomatic committee examine whether or not the ambafsador fhould be ordered to come away, after declating to the diet that it was the firm intention of France to maintain all her treaties to the Swifs.

Approach of the duke of Brunswick.

Sept. 2. The president announced that two commissioners from the community of Paris requested to be admitted to the bar on prefsing businefs. Leave being granted, one of them ad-

" The council of the com-

Masuriar, and Sers, requested gers of their country, come to that it might be sent to a com- deliberate on the measures nemittee for reconsideration, as cefsary to be taken in the presuch a measure would induce sent awful and alarming crisis. the enemies to make reprisals, It has been decreed that the and consequently give rise to a tocsin thall immediately be war of the most horid kind. rung; the alarm guns fired, After a long debate, the plan and that commissioners fliall

' Citizens, the enemy is at dun is besieged. It cannot hold out longer than eight days. Citizens, let us repair to day to the Champ de Mars; let an army of 60,000 mich be immediately formed; and let us march towards the enemy.'.

" The community of Paris has decreed that their operations shall be laid before the national afsembly, because they consider it as the rallying point of all good Frenchmen."

This speech was followed with reiterated applauses, and the commissioners were invited to the honour of the sitting.

Paris, Sept. 4.

The news came that a body of 4000 French, which had been detached by Dumourier for Verdun, had, by treachery also, been led into ambuscade, dreised the alsembly as follows : | and cut in pieces. This raised the fury of the populace to its munity, afflicted with the dan- height. "We have no one to

vî. rust to," they exclaimed; "we | continued all yesterday. M. are to be butchered like theep, and shall we not turn upon our hunters ? We must face them ; but shall we, on quitting our wives and children, leave them to the traitors who are now in prison? Can we go with confidence to meet the enemy, and leave traitors in existence behind us ?" " A l'Abbaye ! aux the horrid proposition made in for three or four hours. were the exclamations of the furies that crowded the streets! mercy the cardinal du Rochefoucalt, and about one hundred and thirty priests, were mafsacred. From this they hurried to the Abbaye, where every man and woman confined under suspicion of crimes against the nation was also murdered. Paris, September 6. M.

R. Hulieres and the abbé Bardy were the first persons murdered at the Hotel de la force, and the abbes Lenfant, Chapt de Rastiguac, and Fontenay at the Carmes .- M. St Meort, accused of writing in the journal de la Cour, was after the mock prisoners, were saved by means trial, acquitted and carried of the commissioners. home. The massacre of prisoiners at the Hotel de la Force

historical chronicle.

d'Affry, the father was also pronounced innocent.

We are happy also to say, that all the ladies of the queen, except madam de Lamballe, were saved.

The unfortunate Lamballe. after undergoing a long examination, was beheaded, her head put on a pike, and, eternal in-Carmes !-- let us cut the throat famy on the wretches ! her boof every traitor !" Such was dy was dragged through Paris That assembly of the Federates in the was the foremost in this the hall of the Jacobins ! Such conspiracy, it is impossible to deny-that flie has been indeed one of the chief instruments of The people flew to the con- the court in all its crimes, it is vent of the Carmelites, where vain to conceal-but the was the refractory priests of Paris now rendered incapable of do-were confined, and without ing more mischief; and if her beauty had no influence on those barbarians, her sex surely should have shielded her from their vengeance.

M. Lenfant had been acguitted, and was actually out of the goal when the mob found out his real name, and he was pursued, brought back, and murdered. M. Mailly, a major general, was claimed by the commissioners as a carpenter, but he was found out and instantly stabbed.

The abbe Solomon du Veyrier, late secretary, Guillaume, the notary, and several other

ANOTHER MASSACRE. Paris, Sept. 10. Another

le.

ued all yesterday. M. y, the father was also nced innocent.

are happy also to say, the ladies of the queen, madam de Lamballe, aved.

unfortunate Lamballe. ndergoing a long examiwas beheaded, her head a pike, and, eternal inn the wretches ! her bodragged through Paris e or four hours. That s the foremost in this acy, it is impossible to that fhe has been indeed the chief instruments of rt in all its crimes, it is conceal-but fhe was ndered incapable of dore mischief; and if her had no influence on arbarians, her sex surely have shielded her from ngeance.

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, Sept. 10. Another

bistorical chronicle.

commit some outrage.

them except two.

ber of the victims.

Vit

horrid scene has been transac- leging that they cannot be ted by the populace. On Sa- granted without the consent of turday last, at three o'clock in the four orders of the kingdom .. the afternoon, the prisoners and that by the will of the late from Orleans arrived at Ver- king, these orders cannot be sailles, with an escort of 2000 convoked till the young king, men and six pieces of cannon. shall be declared of age. When they reached the Place

M. LA FAYETTE. d'Armes, the people appeared When this general, and the

in great numbers, and by their officers who accompanied him, gestures and threats indicated were stopped by the Austrian their determined resolution to party, after they had quitted France, they remonstrated with :

Their fury, however, was the commandant against the infor some time restrained; but justice of considering them as when the prisoners, who aprisoners, seeing titey were simmounted to fifty-four in numply passing as traveilers with a ber, arrived at the gate de l'O- view to get into some neutral, rangerie, the people ruthed up- country. Since then M. la. on the guards, overpowered Fayette has published the folthem by their numbers, tore lowing declaration on this subfrom them the unhappy vic-lject:

tims, whom they in vain at-The under signed French citempted to protect, and abantizens (to the number of twendoning themselves to the fren- ty two), prevented by an impzy of their political enthusierious concourse of circumstanasm, butchered the whole of ces from enjoying the happinels of serving, as they have These ungovernable wretches always done, the liberty of not contented with committing their country ; being no longer this atrocions act of barbarity, able to oppose those violations proceeded to all the prisons of of the constitution, which the Versailles, and gratified their will of the national assembly infernal vengeance, by destroy- have established, declare, that ing every suspected person they cannot be considered as whom they found in them. military enemics, since they We as yet know not the num- have renounced their commifsions in the French army, and and much lefs as connected with

Miscellancous. The duke regent of Stock- that part of their countrymen holm has eluded the demand of who have been induced by in-Russia for the succoursstipulated terests, sentiments, and opiniin the treaty of alliance, by al-lons, absciutely different from

bistorical chronicle.

theirs, to unite themselves with charming sweetness resumed the foreign powers now at war with | place of the most gloomy sus-France; but merely as stran- pence.

may not be at present engaged into an apartment to secure in hostilities against their coun- an offender, it cannot be deemtry. Ruchf.rt, Aug. 19.



viii

DOMESTIC. Warwick, Aug. 21. this morning, about half past seven o'clock. the soi disant duke of Ormond was ordered to the of Mr Hammond, banker, of bar : - his deportment was Newmarket ; the other on that graceful and becoming ; and of MrGreen, jeweller, in Bondthe whole court, which was street. extremely crowded, seemed to feel a painful sensation, that a a present from the duchefs young man so accomplified Condesa de Campo Alange, should have reduced himself to consisting of some of the fiso dreadful a situation by his nest Spanish sheep that her own imprudence.

The first jury was challented till near twelve o'clock, when the jury acquitted him.

hour in his defence, and displayed very great ability.

The young lady, who ac- mistrefs. companied him from Leicester The commissioners for huildto Birmingham, was present with her father; and it is said, her countenance refused to with Mr Alexander Stevens, conceal the agitation of her and a few days ago this immind during the trial, and portant undertaking was com-when the jury pronounced the menced. words, " not guilty," the most

gers, who demand a free pafsage. The evidence of Bruce the which the right of nations cu-thief-taker, was somewhat detitles them to, and of which fective-but the following axthey will avail themselves, in jiom, it seems, determined Griforder to repair speedily to a ter. fin's fate : " If an officer be ritory, the government of which killed in endeavouring to break

LA FAYETTE. ed murder, except the officer shall have acquainted the offender by what authority, or for what offence, he is about to secure him.

Griffin is still held by two detainers; one on the charge

His majesty lately received country could afford. As some return of kindnefs to the ged-another being sworn, he fair Spaniard, his majesty has was put to his trial, which las- sent eight fine bay horses of uncommon beauty, which were thipped off from the tower on He spoke upwards of an Wednesday last for Bilboa, and are to be conveyed with all due care to their intended

g sweetnefs resumed the the most gloomy sus-

evidence of Bruce the ker, was somewhat de--but the following axeems, determined Grif-: " If an officer be endeavouring to break apartment to secure der, it cannot be deemler, except the officer ve acquainted the ofby what authority, or t offence, he is about to um.

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najesty lately received at from the duchefs a de Campo Alange, ng of some of the fipanish sheep that her could afford. As turn of kindness to the aniard, his majesty has tht fine bay horses of non beauty, which were off from the tower on sday last for Bilboa, to be conveyed with care to their intended s.

commissioners for buildridge across the river at se, have contracted Ir Alexander Stevens, few days ago this imundertaking was com-

SHORT CHRONICLE

OF EVENTS.

Oc 10 792.

FOREIGN. France.

THE most remarkable incident which has occurred in France since our last, is the meeting of the national convention, and the consequent dissolution of the national afsembly.

Previous to the meeting of the national convention, the Jacobin club, on the 17th of September, came to the following resolves, which they took care to publish as generally as pofsible, for the obvious purpose of overawing the afsembly.

" That a scrutiny shall be made of the national convention, for the purpose of expelling from its bosom such suspected members as may, in their nomination, have escaped the sagacity of the primary afsemblies.

" That all deputies chosen to the national convention who may have attacked, or shall attack the sovereignty of the people, shall be declared incapable of sitting.

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decrees passed by the national afsembly, fhall be sanctioned or revised by the people.

" That royalty fhall be absolutely abolithed, and the punithment of death inflicted on those who may propose the reestablifument of it.

" That the form of government shall be republican."

National convention instituted. September 21 .- Morning. M. Francois said, that in his opinion the national afsembly ought to terminate its operations by an act of respect towards the national convention. He therefore proposed that an addrefs should be presented to the new constituent body. " As soon as it shall be organized," said he, " our functions will cease, we will then repair to the national edifice in the Thuilleries, to serve it as a first guard, and we will bow hefore the sovereighty of the people, whom they are going to represent." He then presented the following addrefs, which was unanimously " That all constitutional adopted, and M. Francois was t

historical chronicle. ordered to present it TO THE of power which you alone NATIONAL CONVENTION.

posed the national legislative afsembly, informed that the national convention is constituted, have terminated their functions. They have agreed at the same time, that their last act, as a body, should be to wait upon you in the national edifice of the Thuilleries; to offer to conduct of your sitting; to congratulate themselves on having deposited in your hands the reins first example of bowing before whom you represent.

" We ought indeed to felicitate ourselves, in a particular manner, for the happinefs we enjoy of sceing you afsembled; because it was in obedience to our voice that the nation chose you; and because, in yielding to our invitation. al the primary afsemblies of measures, which we thought ourselves obliged to pursue to save twenty four millions of men from the perfidy of one. (Loud applauses.)

" " The difficult circumstansince the memorable epoch of

now polsels. We have provi-" Representatives of the sionally done away every thing nation, the members who com- that the urgent interests of the people required, without encroaching upon the authority which was not delegated to us .- In fhort, representatives, you have arrived, invested with the unlimited confidence of a great and generous nation; commissioned by it to let its external enemies hear the voice of its independence; you, themselves, to the place authorised to enchain at home the monster of anarchy; in a situation to remove all obstacles, and to make every of authority; and to set the head, without distinction, bend under the protecting and avengthe majesty of that people ing sword of the law. No pretences are any longer left for confusion, no objects for division. It is now the nation which wifnes for liberty and equality, and which has appointed you to establish them upon a foundation which never can be shaken.

" Discharge, representatives, your important duties; re-France have unanimously sanc- alise the promises which we tweed those extraordinary have made in your name; and may the French people soon be indebted to you for three gifts, the first and the most valuable that Heaven can bestow upon mankind, Liberty ! Laws! Peace !---- Liberty, without ces in which we have been which the French people can no longer live .- Laws, which the 1cth of August, would form the most solid basis of have doubtlefs required those liberty .- And Peace, which is resources and that plenitude the only object, and the only

le.

wer which you alone ofsefs. We have proviy done away every thing ie urgent interests of the required, without ening upon the authority was not delegated to-In short, representatives, have arrived, invested he unlimited confidence eat and generous nation; issioned by it to let its al cnemies hear the of its independence; ised to enchain at home conster of anarchy; in a on to remove all obs, and to make every without distinction, bend the protecting and avengord of the law. No preare any longer left for ion, no objects for di-. It is now the nation wifnes for liberty and ty, and which has apd you to establish them a foundation which nen be shaken.

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!----Liberty, without the French people can ger live.-Laws, which the most solid hasis of .-And Peace, which is ly object, and the only

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inscribed by the Greeks on the walls of the temple of Delphos. You will imprint them with indelible characters on the whole surface of the territories of France,-and each of us, when we return to our respective departments, will every where inspire confidence in your wisdom; respect for the existing laws, in expectance of those which are about to proceed from your tutelary authority; submission to the free and popular government, which you are about to establiff; and the most sincere wiftes for maintaining among all the parts of this extended empire, that unity, of which bond of connection."

After this address was read, and approved, a deputation from the national convention having entered the hall, their spokesman said,

" The national convention has sent us to inform you, that they are constituted, and that they are going to repair hither. to commence their sittings."

M. Francois, who was in the chair, informed the deputation, that the national legislative afsembly had just decreed, that they should proceed in a body to the Thuilleries, to serve as a guard to the convention .--rose up, and thus terminated, over-ruled.

xi end of war .- Liberty ! Laws ! | after the existence of an year, Peace! these three words were the national alsembly, under which the French nation marched with giant strides towards republicanism.

We have inserted the above as a specimen of the mode of proceeding, and manner of arguing in this convention,-we must pafs over others more brietly.

Sept. 22. The convention decreed,

1. That all public acts fhall be dated, " The first year of the French republic.

11. That the state seal shall be changed, and have for legend, " French republic."

m. That the national seal fhall represent a woman sitting on a bundle of arms, and hayour august alsembly will ever ving in her hand a pike, with be the common centre and the cape of liberty upon it; bond of connection." of the French republic."

IV. That petitioners fhall not be admitted to the bar, but during the evening sittings. They next resolved,

I. That all citizens of the republic, without distinction, are eligible to vacant places.

11. All the members of administration, and of judiciary bodies, now in the exercise of their functions shall be changed.

Mr Thomas Paine opposed this last motion, thinking it a matter of too much consequence to be determined with-All the members immediately out deliberation; but he was

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Sept. 23. It was decreed tee fhall have accels to the on- a decree of accusation !- The vention as often as they fhall motion for a decree being pafafk leave.

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II. That there shall be formed a committee of war, which fhall be divided into two sections, who fhall concert together.

Sept. 24. The sitting terminated by the following decree: 1. The French republic no

longer acknowledges princes. 11. The national convention, in consequence, supprefses all appenages.

Sept. 25. Mefs. Roberspierre and Marat were accused by name, as having promo- sible. ted the fhameful afsafsinations that had lately taken place in Paris. The former vindicated them on account of their behimself by an appeal to his public life; but the reply to his convention, a long debate took defence was decisively given by place, whether ministers could M. Barbaroux, a deputy from be chosen from among the Marseilles, who declared that members or not; when it was he had been applied to by M. at length decreed, "that the Panis, a member of the afsem- ministers could not be chosen bly, to conciliate the Marsel- from among the deputies." lois to the support of a plan, the bent of which was "to elevate the virtuous Roberspierre to the dictatorthip !" M. Marat's vindication was as inconclusive in their resignation. The foras the preceding. He replied mer, because he had been choby avowing his opinion of the the necessity of a dictator; and convention; and the latter, when the alsembly expressed because the state of his health their abhorrence, he clapped a did not permit him to support pistol to his head, and declared the fatigues of office. that he would blow out his A member here bestowed

Ibraias, in the face of the con-1. That the military compative vention, if they proceeded to sed over, left this man without a plea for this false heroism; otherwise, at once debauched and desperate, he might have resembled Catiline both in his life and end.

> M. Danton, who, with Chabot and some few others, were more than suspected of entertaining similar projects, agreed in the condemnation of Marat.

> The conclusion of this unexpected businefs was a decree declaring, simply, " That the republic was whole and indivi-

> Sept. 29. Several of the ministers having resigned, some of ing members of the national

> This decree brought on a discufsion respecting the two ministers, Roland and Servan, who both persisted in giving sen a deputy to the national

in the face of the cona, if they proceeded to e of accusation !- The for a decree being pafer, left this man without for this false heroism; ise, at once debauched sperate, he might have led Catiline both in his l end.

Danton, who, with Chasome few others, were ian suspected of entersimilar projects, agreed condemnation of Marat. conclusion of this und businefs was a decree g, simply, " That the : was rubole and indivi-

29. Several of the miniving resigned, some of account of their benbers of the national ion, a long debate took hether ministers could en from among the s or not; when it was th decreed, "that the s could not be chosen ong the deputies."

decree brought on a a respecting the two , Roland and Servan, h persisted in giving resignation. The forause he had been choputy to the national on; and the latter, he state of his health ermit him to support ies of office.

mber here bestowed

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the highest praises on the two | Buzzot, after tracing out in ministers, and reminded the an elegant speech the services convention of the important by which these ministers had services they had rendered to immortalized themselves, was their country, to which they of opinion that the convention had sacrificed the greater part was the dispenser of the grati-of their property. "The tude of the nation, and that it minister for the home depart- would not disgrace itself, as ment (said he,) rendered a bortive a great part of the ting Servan and Roland not to plots formed in several of the quit their functions. départments, and he gave vimost deplorable apathy, and exhibited the most criminal inrepublic. The minister of war had fhewn what might be accomplifhed by the activity of an houest man. He had invite. used every exertion to defeat the machinations of foreign health so much that he is now confined to his bed. On these serve it."

up places in the ministry.

had been pretended, by invi-

The discussion was about to gour to the administrations be terminated, but a member which, before his coming into having moved, that Danton office, were in a state of the thould also be invited to discharge, at least provisionally, the duty of minister of justice, difference for the good of the that gentleman expressed his indignation that the representatives of a free people flould debase themselves so far as to

" It is probable, and even certain, (continued Danton,) enemies, and even injured his that the minister of war cannot yield to your invitation, as the state of his health will not perconsiderations I think every mit him; and is it not a real good citizen must will that disgrace to you to expose your-Roland and Servan would re- selves to the mortification of a tain that post at which they | refusal ? But as every one here have been placed by the con- has the right of expressing his fidence of the nation. I move, sentiments, I shall declare therefore, that these citizens mine like a son of freedom. may be invited in the name of People talk to you continually their country to continue to of Roland and his virtues; I render him that justice which Jean de Brie said, this would is due to him, but I think his be offering an insult to other talents are too much extolled. citizens, as it would amount If you mean to addrefs your to a declaration that none of prayers to him, address them them were capable of filling also to his wife, for the also had . la fliare in the administration.

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I acted alone, and I did every an exile; but the dangers of thing alone; but if Roland had their country made his fellow not had a wife, he would not citizens sensible of their fault, have obtained so much praise. and Camillus was invited to Without doubt, and proofs of it forget his injuries. He returexist, he does not polsels that ned and saved Rome from the greatnels of character, and that destructive fury of the Gauls." sublime intrepidity which are Cambon.—" We have been not intimidated by great dan- republicans eight days, and yet gers. I will tell you, that in we abandon ourselves to all the last moments of the crisis, the infatuation of slaves. Be he shewed a want of firmness, on your guard, least gratitude and declared in the council should hurry you too far; exhis intention to quit Paris." cefs of gratitude conducts al-(This speech was often interrupted by loud nurmurs.)

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to Danton the expression of tides, replied, " I am tired of hearing him stiled The just."

Another member severely censured this application ; " an expression (sayshe) has just now been quoted, which can hardly be believed to have come from the mouth of a son of freedom. thewn a want of firmnels and Aristides, the wisest man in courage .-... During the days Greece, was indeed banifhed by of proscription," said he, "I his ungrateful countrymen; but he was soon recalled, and thought that those who had enthe villains who had represen- deavoured to direct the poignted him as an enemy to his and of abafsins against him country, received a just pu- might at length sco their pernithment for their intrigues. fidious designs crowned with The Roman history furnishes success. When I saw Roland an instance of similar injustice. on that occasion, he said, 'If Camillus saw also his virtues I am proscribed I will calmly

I also have been a minister, but He was also obliged to become

ways to despotism. Let us not forget what happened among Barrere, in the warmth of the Dutch; one of their fellow the debate, improperly applied citizens rendered them great services, which were extolled that Athenian, who, being afk- to the clouds; they created ed why he voted against Aris- him Stadtholder, and this Stadtholder at length crufied their liberty .-- I move for the order of the day."

Louvet replied to the reproach thrown out by Danton against the minister for the home department, for having waited upon Roland, for I and long services forgotten. wait my fate, and I hope that also obliged to become e; but the dangers of untry made his fellow sensible of their fault, millus was invited to is injuries. He retursaved Rome from the tive fury of the Gauls." pon.-" We have been cans eight days, and yet ndon ourselves to all atuation of slaves. Be guard, least gratitude hurry yon too far ; exgratitude conducts aldespotism. Let us not what happened among ch; one of their fellow rendered them great s, which were extolled clouds; they created Stadtholder, and this ilder at length crufied berty .-- I move for the f the day."

vet replied to the rethrown out by Dantou the minister for the department, for having a want of firmnefs and e .- " During the days scription," said he, " I upon Roland, for I t that those who had enred to direct the poignalsalsins against him at length sco their perdesigns crowned with . When I saw Roland occasion, he said, 'If proscribed I will calmly y fate, and I hope that bistorical chronicle

been said by Danton ?"

Lasource .-... Without wasting our time in enquiring whether the talents ascribed to Rolland were entirely his own, or in a great measure those of his wife, I am of opinion that a public man ought not to be reproached for having a prudent wife, and even for sometimes following her wise councils. The reflection that has been thrown out by Danton is unworthy of a legislator."

After defending Rolland against all the calumnies that had been thrown out against him, Lasource moved the pretions that had been made, saying, the convention ought to be very sparing of that exaggerawas often apt to be meonsideconduct gradually to despo- legislarure. Diend that influence tism. " An honest man," added he, " ought to be contented with the tacit approbation of his fellow citizeus, and the I is hure than their colle gues, pretent testimony of his conscience."

They then paised to the order of the day.

Jacobin club.

The foregoing are the prin-The foregoing are the prin-Let us finish cipal transactions of the natio-our government: incessing war will nal convention; but that the betterminated when we come to that

this murder will be the last.' | may be known, it is as necel-Was this pusillanimity, as has sary to advert to the transactions in the Jacobin club, of which the following is a specimen ;

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September 23. M. Stephanapoli read a speech, the intention of which was, to engage the society to send a company of an handred men every day to work at the camp of Paris This proposal was combated by MI. Chabor, who said, that as each of the minibers was obliged to discharge this duty in his section, it would be absurd to give the society, by this act, a soci of ex stence which it could not have.

It is not by petitions to the national convention that we ought at present o make it dopt such or such a plan of derence for Paris.

Let your governors know by your discutsions, which they will hear of one way or other, that your sole dehim, Lasource moved the pre-sreis to see your givernment soon vious question, on all the mo-field. It is in the first maneets of its existence that you ought to expect from it those vignous measures, which the conduct it has observed ted praise of which enthusiasm does not give us reason to hope to see it long pursue. The first day of its sitting, it overturned the rotten trunk of rately lavih; and that extra-vagant praises served for the most part only to excite the most of the most part only to excite the the transfer of that tree. It spined the transfer of that is a considered with the transfer of the transfer which intrigue will not full to gain amongst you; and if in tigue is to be apprehended, it is from cer a n consti-:uents, who, because they have done to the ite, itation of patriots. If intrigue is to be dreaded, it is fro.n some legislitois, who, though they voied against La Fayette, are not the more pario's, as M. Sunoa his very justly observed.

true constitution of France point; and we shall have a good gr-

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ve.fiment when we were bandhed from the ancient disclaration of rights, and the ancient constitution, those parasite branches which the constituents suffered to grow there.

You are told that an extensive plan of a government must be presented. Nothing is more pernicious than such an idea; for an extensive plan requires rouch time to be formed, and much time to be discufsed. Besides, it is not an extensive plan that we have occusion for,—our bases are laid, and our most important object is to have a government as speedily as polisible

I have already and pointed also onght to have been ifficient derived day atter you abolifhed royalty, for that must be do ie in older to substitute arbitration in the room of their actences and decisions. Had an arbitrator heen appointed in each canton, that office would certainly have been given by the people to the honestest man in the district.

The same fear of disorg in z ition has prevented the army from leng nationalized. What difficulty would there be in establishing national volunterrs, and causing the s rd ers to elset their own officers? Such an operation would not require much time, and would not require much time, and would occusion lefs disorganization in the army, than the leaving such traitors as Monresquion at the head of it.

To establish the religion of the lawall circzens, without distinction, must be invited to have a flare in the formation of the law. Every Suntay after mails, let the operations of the I g'alature be read to the people; let the people d scufs them, and consider whether they are proper or not to be adopted. When a law thall have thus Leen approved by the major ty of the people, you need not be afraid that a single individual will be tem, ted to break it.

September 24. Chibot moved that the order of the day should be invariably fixed on the means of forcing the curventian to organize the government speedily, and before they proceeded to any other businers.

Some members found fault with the word forcing; but Chabat said, that if the jacobins of Paris had not a right to force the covernion to do such and such a thing, the Jacobins of the anoble empire, that is to sty, all good calizens, had incortestibly that right; for added he, constituents have always a right to force their representatives to obey their orders, and if the constituent on he not fixed by the end of November or December, and if it be not revised by the people before the end of March, our liberty is lost.

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A curious debate arose on this af-sertion, in which Le Vafseor, in a very manly way, said, that as a representative of the nation, it was neither in his p inciples, nor his character, to be forced to any thing. -During the sumult of debate which ensued, M. Petion, with a number of his friends, entered the hall, and the president's chair being offered to him, he accepted it. The evident intention of their com ng was to resist, inits commencement, a plan formed by Roberspierie, and his party, to instigate the people age not the resolutions which had been come to by the convention that day, for courting the instigators to maisacre and pillage-for procuring a guard from the 83 departments to overawe the mob of Paris, Sec.

Faber begin the attack, and afterted, that the proposed measure was a direct cersure on the conduct of the true patriors, who had saved their country from destruction. He was also very severe against the mover, Buzzt, who was warmly defended by his friend Petion, and after a turnulturnus discussion, the president and his party had sufficient interest to get the question arjourned.

e afraid that a be tempted to sot moved that d be invariato forcing the government by proceeded to Cther news defored till car next.

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nembers found fault with furcing; but Chabot said, Jacubins of Paris had not force the convention to do ich a thing, the Jacobins of empire, that is to say, all ns, had incontestibly that added he, constituents have ght in force their represenn be not fixed by the end of or December, and if it be by the people before the rch, our liberty is lost-

us debate arose on this afy way, said, that as a repre-of the nation, it was neither ciples, nor his character, to to any thing. -During the debate which ensued, M. th a number of his friends, e hall, and the president's g offered to him, he accepted evident intention of their as to resist, inits commencelan formed by Roberspierie, arty, to instigate the people e resolutions which had been y the convention that day, for the instigators to maisacre ge-for procuring a guard 83 departments to overawe of Paris, Sec.

orgon the attack, and afeerthe proposed measure was a sure on the conduct of the iots, who had saved their rom destruction. He was alsevere against the mover, ho was warmly defended by Petion, and after a tumulenfoon, the president and his sufficient interest to get the anjourned.

a these specimens, our will be able to form lea of the state of par-France, of the motives uate the different leaders, means they rely upon ecting their purposes. r cest.

SHORT CHRONICLE

OF EVENTS.

Oct. 31

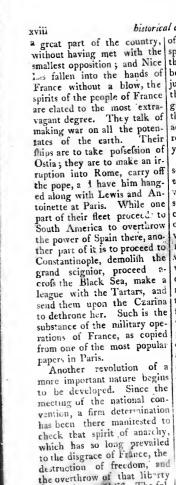
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FOLLISN.

France. SINCE our last, a very imporin France, which has totally al-The combined armies of Prufen party withing to throw the a similar fate has not always on that of the other; so that it interference of foreign powis not improbable that it may ers in the affairs of other na-end in a serious rupture be- tions. The emigrants are in-Vienna; the consequences of and are reduced to the most which can hardly fail of being | deplorable distrefs. very prejudicial to both. VOL. XI. c

that power, if the empress lives, to check the power of Prufsia on that side, while, on tant revolution has taken place the other hand, there is scarcely room to doubt that the Autered the situation of affairs. strian Netherlands will seize this opportunity of freeing sia and Austria, weakened by themselves from the Austrian disease, and distrefsed by want yoke, which they have conof provisions, hav been dri- sidered for several years back ven from the Frencu territories as a grievous burden. Sowith ignominy ; and the allied much for the ill judged interpowers are now, as is usual meddling of these proud potenon such cases, recriminating tates in the internal affairs of each other, ---- each another state. Pity it is that blame from his own shoulders attended the like unjustifiable tween the courts of Berlin and tirely flaken of by all parties,

In consequence of this un-Rufsia on the one hand has, expected success, and of the during this ill concerted expe- progrefs of the French in Sadition on their part, acquired voy, where the weakness of a such a decided superiority in vain prince, and the wicked-Poland, as to be able to go- nefs of a corrupted court have vern there with as absolute long paved the way for their authority as at Petersburgh, reception; so that Montesand will no doubt make use of quieu has now pointion of an +



bistorical chronicle.

a great part of the country, of the convention indicates a without having met with the spirit that does honour to smallest opposition ; and Nice that body, and if they fhall and fallen into the hands of be able to act with the same France without a blow, the judicious firmnels in future, spirits of the people of France they will be entitled to a are clated to the most 'extra- great fhare of applause; but vagant degree. They talk of they have an arduous talk to making war on all the poten- accomplish, and there is great Their reason to dread they will not fhips are to take possession of yet be able to accomplish it.

Oct. 7. A deputation of the section of Paris, called Gravilliers, requested that the convention would speedily pais sentence on the king; and complained at the same time of several decrees of the convention. " The men of the toin of August, (said they,) will never suffer those in whom they have placed their confidence, to disown for a moment the sovereignty of the people. Courage in a free people is a virtue, and we will never depart from this principle,-that if it is just to obey the laws, it is just also to. resist despois, under whatever mask they may conceal themselves. We are of opinion, that our interest requires that we should make our elections by open vote."

President,-" Citizens, the right of petitioning is a sacred right; but those who present themselves at the bar to emdestruction of freedom, and ploy it, ought not to forget hat respect which they owe they will to establish. The fol- to the representatives of the lowing speech of the president people .-- I do not mean to

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convention indicates a that does honour to ody, and if they shall e to act with the same us firmnels in future, will be entitled to a thare of applause; but ave an arduous talk to plift, and there is great to dread they will not able to accomplish it. . 7. A deputation of the of Paris, called Gra-, requested that the conn would speedily pafs ce on the king; and uned at the same time ral decrees of the conn. " The men of the f August, (said they,) never suffer those in they have placed their ence, to disown for a it the sovereignty of cople. Courage in a cople is a virtue, and we ever depart from this ole,-that if it is just to e laws, it is just also to. despots, under whatever they may conceal them-

We are of opinion, ar interest requires that uld make our elections n vote." ident,-" Citizens, the

of petitioning is a sacred but those who present lves at the bar to em-, ought not to forget spect which they owe representatives of the .- I do not mean to

historical chronicle.

the people of Paris, but to the their officers to prevent it. people of all France. The The general ordered these two republic. tives will not be compelled by threats to violate or discharge their duty. - They know it, and they will render themselves worthy of that confidence with which the French republic has invested them. They have nothing to fear, and they fear nothing from the people of Paris; and what you said, to alsure them, was perfectly uselefs. They entertain neither fear nor suspicion. In fhort, the national convention will always hear with convention. pleasure the language of liberty, but it will never suffer that of licentiousnefs. It will take has been suspected, accused, your petition into considera- and suspended from his comtion, and admits twenty of you, the number pointed out by the law, to the honours of the sit- voy, and has taken possession ting." The convention ordered

this answer to be printed; but The extreme weakness of the great exertions are making in king of Sardinia, and the exthe Jacobin clubs to set this travagant conduct of the court decision at no ight.

Dumourier, was equally deci- will meet with little opposisive and praise worthy, in re- tion from that quarter, unlefs prefsing the brutality of two the party of the prince of Pibattalions of the federates of edmont, fhall finally preponde-Paris, who massacred in cold rate in the national council. blood four prisoners they had taken, in spite of the efforts of The Swifs cantons are also

national convention acknow- battalions to be surrounded, ledges only one people, one and forced to lay down their sovereign,-that is, the union arms, standards, and uniforms. of the citizens of the whole - That they should be forced The representa- to deliver up the criminals who committed the inhuman mafsacre at Rhetel, who, under an escort of 100 men, thould conduct them to Paris, and deliver them up to the national convention .- That the rest of the battalions should be broken-their arms and habits laid up in the military store, -and their colours seat back to their districts, to be by them confided to men more worthy to bear them. This measure was highly applauded by the

Xig

Invasion of Savoy.

M. de Montesquieu, who mand by the National Afsembly, has actually invaded Saof Chamberry, belonging to that state, without resistance. of Turin for some time past, The conduct of general render it probable that they Switzerland.

xx pafs, into the republic called public. *Pierre Pertuis*, and troops M. la Fayettte was openly were preparing to dispute it, insulted by the people in pafnot be allowed to take possef- is well known, sion of that pafs.

Miscellaneous.

A popular insurrection has taken place at Belgrade; the or city upon the continent, as Turkith garrison were forced the whole funded property of to make a precipitate retreat the place rested upon the into the citadel, where they Freach funds; the fall on ate now besieged in form by which, added to the fall of the the insurgents. The latter exchange, have reduced their have likewise stopped the post to Constantinople.

Leyden, Sept. 28. A number of papers are now circulated here, which afsert, that the principal promoters of the re. volution in France are providing a retreat in one of the are thought to be the object islands of the Grecian Archi- of these negociations, in which pelago, which they mean to the two courts do not altogepurchase from the Turks, in ther agree. case any misfortune shall hap-pen; and that their design is gree in saying, that a great fer-They have already, as is pre- of vain glory, is exhausting his

historical chronicle threatened with an invasion | tended, s ized on all the Crowa from France. M. Ferrere was | jewels, and their endeavours to advancing with rapid progrefs discover the robbers are only to take possession of a strong a mere deception to amuse the

when, by the intervention of sing through Cologne; and, deputies from Bienne, hostili- had it not been for his guard, ties were prevented for the he would perhaps have been present, on the commissioners massacred. He will be immeof the cantons giving their diately carried from Wesel to word that the Austrians should Spandau, a state prison which

The city of Geneva has suffered more by the French revolution than any other town incomes more than half of .neir original value.

A very spirited correspondence has been for some time past, carried on between the courts of Vienna and Petersburg. The affairs of Poland

to fit out every vessel belong. Imentation prevails in that city, ing to the state which may be and that the people exclaim in a condition to put to sea, loudly against the conduct of and to carry all the gold and the king of Prussia, who, to silver out of the kingdom. satisfy a momentary impulse

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s ized on all the Crown and their endeavours to t the robbers are only deception to amuse the

a Fayettte was openly by the people in pafrough Cologne; and, not been for his guard, ild perhaps have been ed. He will be immecarried from Wesel to u, a state prison which knoyin,

city of Geneva has suftore by the French ren than any other town upon the continent, as ole funded property of ace rested upon the funds; the fall on added to the fall of the ge, have reduced their s more than half of .ncir value.

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advices from Berlin asaying, that a great feron prevails in that city, it the people exclaim against the conduct of g of Prussia, who, to a momentary impulse glory, is exhausting his

bistorical chronicle.

country of men and money. ing to Behomia on the 1 sth ult. These considerations have occasioned a coolneis between the generals of the emperor and those of the king of Prulsia, who, dreading some commotion in his own kingdom, wifhes to extricate himself from the league formed against France with as little hurt to mmself as he can, by throwing all the odium upon the emigrant princes, who, indeed have imposed upon the Prufsians, by making them believe that the campaign would only be a pleasant summer excursion. It is impossible to de scribe the thame and vexation manifested at the Hague on account of this disappointment, as the defeat of the French was considered as an event beyond the possibility of a doubt.

Dr Kemp, of the college at New York, writes to his friend in Aberdeen thus, dated 28th July last-The legislature, last sefsion, pafsed a law for opening the navigation from New York to the lakes, with the Hudson and Mohawk rivers, there will be an inland navigaadvantages of America.

to meet a princels of Clary, to whom he was to be married, was attacked at the distance of four posts from that place by a band of robbers, who cut the traces of his carriage, forced the postillion to retire, murdered one of the count's chafscurs, as well as his valet de chambre. and stabbed the count himself with a knife in seven places. They then robbed the carriage, in which there were valuable effects and money to the amount of 15,000 florins. Two alsasins who were wounded by the chafseur have been takeu.

The Spanith minister has declared officially, and in the name of his court, to the vice chancellor of court and state, that the thocking scenes of the 10th of August have induced his catholic majesty to declare war on the usurpers of the regal dignity in France; and that the Spanith troops on the frontiers of France have received orders immediately to penetrate into that kingdom.

The senate of Veni e has by which, at a small expence, determined against entering into the European elliance to tion of 2000 miles, one of the subdue France. The reason first in the world .- This gives they alsign is not the best a very high idea of the local that might, or could be given, yet is good enough ---- namely, The count Szapara, the that their forces would add

principal governor the arch- little strength to the league, duke Palatine of Hungary, go- and that they are needed at

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pinions from spreading.

ring France a republic, was made there anudst a general consternation. Such, however, is the present state of France, that the will and senousnels inspired by the com-Rouen, of twenty-six sections, parts of Africa. two only were for a republican form of goverment; all day the foundation stone of the others were in favour of the bridge here was laid with royalty.

The emperor has published litical writings in the Netherlands.

Letters from St Domingo, received at Nantz, and which came down to the 18th of Au-Caves, immediately after a conference between Blanchelaude and the revolting negroes. Thirteen sugar works have been burnt, and of this number are those of Laborde and of Mercy d'Argenteau.

DOMEST C. to be made against the proposi- ber from appining. tion of renewing the East In-

bistorical chronicle. home to prevent the epidemi- cularly by some adventuring cal influence of the French o- merchants, who have had several meetings, and are preparing Letters from Lyons, state, to prove how far the country

that the proclamation decla- would be benchitted by the abolition of the monopoly. There are two traveilers from whom much information

is expected by the curiouslord Fitzgerald and major timents of individuals are su- Houghton ; the first exploring prefsed by the popular licenti- the regions of America, and the other employed in the no lefs missioners of the convention dangerous and difficult task of and the executive power. At penetrating into the interior

> Montrose, Sept. 26. Yesterthe usual solemnities.

This ceremony had been dean edict strictly prohibiting layed till the arrival of David the introduction of French po-Scott, esq. member for the county, who had with so much zeal and liberality patronized

the undertaking. About 420 French persons have at present applied for regust, announce a conside- lief. The palace at Wincherable revolt of the blacks at ster, which, in the last war held 11,000 French and Dutch prisoners, is now preparing for their reception; and a thousand may probably be accommodated there, in such a manner as to fnew that our charity is not insultingly given. By the notion that the place is a sort of prison, it has, we under-Some opposition is expected 's and, prevented a greater num-

It appears from the annual dia company's charter, parti- abstract of the shipping, which

cle.

y some adventuring s, who have had sevengs, and are preparing how far the country benefitted by the abothe monopoly.

are two traveilers om much information ed by the curioustzgerald and major n; the first exploring ns of America, and the nployed in the no lefs s and difficult task of ng into the interior Africa.

ose, Sept. 26. Yesterfoundation stone of e here was laid with solemnities.

eremony had been dethe arrival of David sq. member for the who had with so much liberality patronized rtaking.

420 French persons present applied for ree palace at Winchech, in the last war 000 French and Dutch , is now preparing for eption; and a thouprobably be accomthere, in such a manfliew that our charity sultingly given. By n that the place is a rison, it has, we underevented a greater numappiring.

ears from the annual of the shipping, which

bistorical chronicle.

were registered within the Bri- |perished at sea, can only be tifh dominions during the year matter of conjecture. 1791, that the number was Mr Dawson, of Liverpool,

15,647, which is 636 more than has presented a petition to the in the preceding year. our is not only uncommonly known to European naviga.

brilliant, but also very durable. tors. A cheese has been made as a present for his majesty at and is now nearly ripe for use : It weighs thirteen and a half cwt. and is nine yards in cirtwo meals of milk .- Sir R. S. Cotton, bart. M. P. for the majesty.

Seven merchants dining- toeach agreed to support a distrefsed French priest or gentleman, at his own expence, till they flould be able to return to their native country.

From the accounts brought by the latest fhips arrived from India, two or three weeks ago, it appears that the inquiries made for ascertaining the fate tion. of the Foulis have proved fruit-

court of East India directors, By experiments made at praying the company's per-Jamaica, it has been proved, mission, that three sail of his that a very rich crimson dye Guinea thips may double the may be obtained from a pre-paration of the fruit of the to explore the eastern coast of manchineal tree ; and the col- Africa, at present but little

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According to the latest accounts from the West Indies, Norleach Bean, in Chefhire, the planters of St. Christopher's have peremptorily refused to pay the duty of 41-2 upon the exportation of sugars. cumference-the produce of Many suits have been brought in the common law court on this account. This is a subcounty, is to present it to his ject very interesting to the proprietors in the West Indies, as they are, in some respects, gether at the London tavern, involved in the final decision. Navigation by steam.

Earl Stanhopc's experiments for navigating vefsels by the steam engine, without masts or sails, have succeeded so much to his satisfaction on a small scale, that a vefsel of 200 tons burden, on this principle, is now building under his direc-

The expence of this vefsel lefs. The thip has tot been is to be paid by the navy board heard of upon any coast, and in the first instance, on conappears to have been lost in dition that if the do not anthe open sea. In what parti swer, afrei a fair trial, fhe fhall carlar manner the thip has so we returned to Earl Stanhope,

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made good by him.

taking, we are hopeful, that in that city. the present high price and scarcity of coals will be rethe winter sets in--- The quantity of coals brought into this city, from 15th August 1791, to 19th August 1792, was 177,144 carts, exclusive of what came from Leith.

corporation of hammermen of Edinburgh, at a full meeting, having taken under consideration the present high price of coals, resolved unanimously, to provide themselves with coals from coalleries more distant than the usual supply, and continue to do so until the coal owners in the neighbourhood of the city shall reduce them to the usual price.

Lord Thurlow had a priwate interview of three hours with his royal highness the prince of Wales at Carleton house, on the arrangement of the prince's affairs.

Oct. 26. The Dutch and Fianders mails, arrived this morning, which bring accounts down to the 23d, contain no certain information relative to the operations of the army under general Custine against Metz and Coblentz ; but they mention, that since the arrival of a courier at Berlin, the speedy

and all the expence incurred return of the king, and a perce with France, have been the From the steps that are now topics of common conversation

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The family compact, which was to England and Holland medied before the severity of a league of hostility, is now, by the declaring France 2 republic, and by a commencement of war between that republic and Spain, so completely broken and annihilated, as to destroy even the fhadow of On the 27th current, the a hope in the Bourbons of its ever again being established.

A vefsel which arrived last week at Liverpool from the gold coast, mentions, that considerable disturbances had arisen there in the month of July last among the slaves belonging to several of the mer-chant factors, which had been productive of some bloudshed, before order was re-established.

Further accounts mention. that trade is exceedingly dull, numbers of veßels being obliged to return with not one quarter of their cargo.

At a meeting of the subscribers for making a canal from near Heath to Barnsley, in Yorkshire, the sum of 60,0001. was subscribed in a few hours.

Wiliam Tucker, esq. is elected a third time mayor of of Trenton; it is remarkable, that he is the father of twentytwo children, and uncle to seventy-five nephews and nieces.

the king, and a perce ince, have been the common conversation tv.

mily compact, which ngland and Holland of hostility, is now, claring France 2 reand by a commencewar between that red Spain, so completen and annihilated, as y even the shadow of n the Bourbons of its n being established. sel which arrived last Liverpool from the st, mentions, that condisturbances had aere in the month of among the slaves beto several of the merctors, which had been ve of some bloodshed,

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meeting of the subfor making a canak r Heath to Barnsley, in re, the sum of 60,000l. cribed in a few hours. m Tucker, esq. is ethird time mayor of on; it is remarkable, s the father of twenty dren, and uncle to see nephews and nieces.

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