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# THE AGRICULTURIST

# AND CANADIAN JOURNAL.

Devoted to Agriculture, Literature, Education, Useful Improvements, Science, and General News.

WILLIAM McDougall.

EDITOR AND PROPRIETOR.

Vor. I.

TORONTO, DECEMBER 15, 1848.

No. 16.

#### SUBSOIL PLOUGHING.

BY JOHN MALLORD, OF YATES COUNTY, NEW YORK.

Ploughing is one of the most important branches of agriculturenecessary even to its existence. The improvement of practical agriculture is in proportion to the improvement made in the art of ploughing. The principles which chemistry has revealed may be made abortive—their results defective—by improper ploughing.

The object to be obtained from ploughing is threefold. Ist. to pulverize the soil; 2nd, to expose a great depth of soil to the action of the atmosphere; and, 3rd., to hold the many fertilizing substances brought down by rain and snow, and absorbed by the soil

It becomes necessary to pulverize the soil, so that the roots of plants may extend in all directions freely and to a great distance. The atmosphere coming in contact with deep and well pulverized earth imparts heat and moisture, and, acting upon the soil, assists in liberating its salts, and in bringing it into that condition which is best fitted for the growth of crops.

A small portion of water, during rains more or less heavy, sinks into the soil when shullow ploughed; such soil is sconer affected by the drought, and is dry at a greater depth than deep earths, as may be shown by an examination of shallow and deep ploughing in a time of shown by an examination of shallow and deep ploughing in a time or drought. Common ploughing does not reach sufficiently deep to accomplish all that is desired; but deep ploughing, and its good results, are effected by following the common plough with the subsoil plough. It simply loosens the subsoil, and leaves it in that state that roots can enter it, that air can permeate it, and water be absorbed by it. A subsequent ploughing, with the common plough, can then easily intermix the surface and subsoil. Ploughing may thus be effected sixteen and twenty inches deep.

I have found, from frequent examination of the roots of the corn, wheat, and oats, during the last four or five years, that they generally incline to grow downwards, some of the roots even straight down until they reach the subsoil, then, after penetrating an eighth or a fourth of an inch, turn horizontally. I traced the root of a wheat plant which had extended sixteen inches perpendicular, in less than three months after it had been sowed, on ground previously subsoiled. It is interesting to take the spade, and examine the roots of crops, at any stage of their growth, in order to compare the effects of common or shallow with those of subsoil ploughing. To see the roots of corn pushing boldly downwards eighteen inches in search of food, eight inches of which had never been penetrated, except by the noble oak and hickory, and occasionally by the searching tap-root of clover, as I have witnessed this past summer, affords pleasure as well as instruction to the farmer who takes pride in showing fat swine or

I subsoiled three-fourths of an acre, through the middle of an eight-acre lot, in June, 1846, for wheat. The field was ploughed but once, and cultivated several times previous to sowing the wheat. I am not able to give the result accurately, in consequence of cutting the grain with a reaper, by which I was unable to keep the wheat separate. The difference was quite perceptible at the time of harvesting; it stood thicker on the ground, and the berry was of a better quality than the adjoining, on ground not subsoiled.

In May last I subsoiled one acre and a half of corn, in a field containing six acres. It had been a timothy meadow for four years. The soil was clay loam; subsoil a tenacious clay; a part of the subbalance a wet swale, with a compact, impervious subsoil. Twenty loads of unfermented manure were applied to the acre. It was ploughed in May, five inches deep, and subsoiled nine inches more.

subsoiled part had retained all its beautiful freshness, bearing a healthy, perpendicular tassel, and having the appearance, through the day, of having been refreshed with a shower of rain the previous evening. That on the unsubsoiled parts yielded to the drought, the tassels drooped, and the leaves became dry and rolled. After an examination of the soil and subsoil about this time with the spade, the difference in the parts became no longer a mystery.

The earth was moist on the subsoiled portion, within a fourth of an inch of the surface; on the unsubsoiled it was dry to the depth of an inch, the balance below dryer than the former. In the one the subsoil was filled with corn roots in search of food and water; in the other they were turned aside by the subsoil. The corn on the wet Swale was as good, if not better, than any other portion of the field.

Judging from the present crop, I am of the opinion that subsoiling this wet swale was an advantage to the crop of one hundred per cent., notwithstanding the objection raised by some to subsoiling wet land without ditching.

In consequence of an experiment, by which I wished to test two varieties of corn, which crossed the field in an opposite direction to that of the subsoiling, I only compared three rows of shocks, five rows in each shock, each row of shocks gathered from twenty-one rods of ground. The result was as follows:—

No. 1. not subsoiled, gave . . . . 606 lbs. of ears. No. 2, three rows subsoiled, 2 rows not, 646 lbs. of ears. No. 3, subsoiled,

The subsoiled gave at the rate of 73 bushels to the acre; that not subsoiled 65 bushels per acre; a difference sufficient to pay for subsoiling. I considered the subsoiled part as having been previously inferior for corn. I aimed to be accurate: if there was any difference in the previous condition of the soil, or in estimating the results of the experiment, it was in favour of the unsubsoiled portion. From the observa-tion of the effects of subsoiling, so far as it has been practiced by myself and others, my mind has become settled in the conviction that subsoil ploughing upon most, if not upon all the land of this county, will prove very beneficial for corn, and all crops usually raised by us.

I may be mistaken, but I fully believe that subsoiling, thoroughly performed, will prove more profitable to furniers for the outlay than any other one improvement. I have never anticipated much improvement from it until after one crop of clover. Then, I expect a complete preparation of the soil for wheat. It is unnecessary for me to describe with what ease a clover root will penetrate the loosened subsoil, and even go further in search of food, gaining strength with every additional inch of depth, bringing the salts of the lower strata to the surface for its use, and affording, by its decay, when turned under by the plough, rich stores and anotaing, by its accay, when turned under by the plough, non-stores of food for wheat. In conclusion, I would recommend subsoiling in the spring and fall, or when the ground is wet sufficiently deep, at any time in the summer. It does well for a summer fallow, if broken up easily. It is beneficial to any crop. The expense is about the same as for breaking up sod ground.

And, finally, if this short and imperfect essay should persuade one farmer of this county to practice deep tillage, with subsoiling, the object of the writer will be attained.—[Transactions of the New York State Agricultural Society, for 1847.

### WILD POTATOES.

It will be recollected that some have recommended procuring wild potatoes for cultivation, on the supposition that they would be more likely to escape the disease. We have in a former number stated that the results of some trials last year showed the produce of wild tubers as much affected with the disease as any. We learn from the I saw no difference in the corn until August, which was then very English papers that they have been tried the past season, and perceptible during the drought of that month. The corn upon the proved equally affected as before.

# Agriculturist and Canadian Iournal

TORONTO, DECEMBER 15, 1848.

# THE AGRICULTURIST.—PAST, PRESENT, AND FUTURE.

This number of the Agriculturest is the last we shall publish in its present shape. We have compiled an Index to all the numbers published in 1848, which will be found on the outside sheet of this number. By referring to this Index, it will be seen that the sixteen numbers, when brought together, contain as great a variety, and as large a quantity of useful matter as any other publication of a similar kind, published at the same price. It is true, that at the commencement of the year, by the false representations, false calculations, and false promises of other parties, the writer was induced to believe that a semi-monthly paper would be more acceptable to the public, which we have still no doubt is the fact; and that such a paper would be sustained, which we have found, to our loss, is not the fact. We will now, as this is the last number for the year, recapitulate the chief reasons which operated to prevent the success of the paper on the plan upon which it was set affoat in January last. As there has necessarily been a good deal of disappointment to subscribers, and as we learn, from our agents, that some are disposed to take advantage of the circumstance, and refuse to pay anything for the paper, though they have taken it from the post-office, and though they were told, in the 11th number, that as the publication must cease to be published twice a month, or drop altogether they might pay for the half-year, or twelve numbers, and discontinue the work, if they did not wish to take it under the altered arrangements; and, further, though they have been informed that all paid subscribers would get the first three numbers of the Volume for 1849, which will make nearly, if not quite the amount of reading matter originally promised. We say, notwithstanding all this, and the explanations we have from time to time given, we are informed there are some subscribers who say they will not pay at all! For the information of these, as well as others, and for our own satisfaction, we will, for the last time, mention the causes of the difficulties through which the Agriculturist has passed, and is now passing.

First; it was well understood, before the first number was printed, that a circulation of 8,000 would be necessary to pay expenses and commission to agents. Then, had we reason to believe we would got that number? The following statement will show. The Editor of "The British American Cultivator" asserted that he then had a bona fide circulation of over 7,000 for his paper. "The Canada Farmer," which we then conducted, had obtained a circulation of 2,000 the first year of its existence, and without any effort till near the close of the year. Supposing we retained the subscribers to both Journals, we would have 9,000 at once. But, allowing for a large falling off, yet, by sending out ten or twelve travelling agents, to canvass the country thoroughly, and in places where no Agricultural paper had yet been introduced, we supposed a circulation of 10,000 might easily be obtained. These were the data and the prospects with which the year commenced. But how were they realized? In the first place, "The British American Cultivator" had not a bona fide circulation of 6,000; and it had been conducted in such a wretched manner, that great numbers refused to have anything further to do with it, or its successor. Then the extraordinary scarcity of money among the farmers, before harvest, prevented hundreds from subscribing, and thousands who did-subscribe, from paying. At least so our agents represent; for our share of nearly 2,000 subscriptions has not yet been re-

ceived. The result was, after a three or four months' canvass, only 5,000 names appeared on our mail books. Some 500 or 600 have since been added. We now come to another branch of the subject, which we should wish to pass over, but, in justice to ourself, cannot. The Editor of "The British American Cultivator" was to have given his attention to the business of the publication, and to assist occasionally in the Editorial department. The first rive or six numbers, as we stated on a former occasion, were got out without any one interested in the paper being able to get more than a sight of this gentleman, and that very rarely. It is during the issue of the first few numbers that the business of a publication requires most attention. As the expenses began to exceed the income, the present Proprietor found that he had to bear all the outlay alone, and to hire and pay people for doing that which this gentleman had undertaken to do, and pretended he had done, viz., the mailing. As difficulties increased, it was also ascertained that agents and others had made payments to him of considerable sums, which did not appear on the books of the concern, nor did they go to pay any of its debts .. mend matters, the Sheriff seized and sold his interest in the paper, to pay his private debts; and, to put on the climax, this worthy personage (we don't mean the Sheriff) walked off with the mail books, by which it became impossible to send the paper, or anything else, to the subscribers, till an Injunction from the Court of Chancery compelled him, after delaying till the last moment, to restore them to the proper office.

Failing, therefore, in all our reasonable expectations, as to the support which a good Agricultural paper, published semi-monthly, would receive, and meeting with these unexpected difficulties, obstructions, and annoyances, from one who ought to have felt the greatest interest, and made the most strenuous exercions for the success of the journal, the present Proprietor was obliged either to give it up altogether, or send it monthly, and trust to the good nature of the public to excuse him for the changes which have taken place. We do not ask any one to pay for what he has not got. We wish, though we shall suffer considerable loss, to keep substantially our engagements with subscribers, though we cannot keep them in the terms they were made. To any person who, through irregularities in the post-office or mistake may not have received the whole sixteen numbers, we shall be most willing to send those which are missing, whenever they write to us, post-paying their letters. As stated in our Prospectus for 1849, three numbers of the next volume, containing 32 pages each, will be sent to all present paid subscribers, and the remainder of the volume may be had for 3s. 9d. In this way we hope to satisfy, after the explanations given, all subscribers whose good opinion is worth retaining. We believe every man, be he learned or unlearned, will have got value for his money. If any farmer will read the paper carefully, and say he can find nothing in it worth a dollar to him, or to his family, we will not ask him to pay his subscription.

We have only one or two observations of a personal character to make, and then we shall be done with the past, hoping there will be no more occasion to allude to it, but that we may be allowed to look forward to a brighter and more prosperous future. The writer has occasionally met with persons who talked as if they thought he could know nothing about farming or farmer's interests, and that it was very like presumption to write or express an opinion on the subject, because he is a lawyer. Now, he has only to say, that he is a farmer's son; that he was brought up, and worked on a farm till he was nearly of age; that, being of a somewhat studious and observing disposition, he learned a little of the practice of farming, and of the peculiarities of the farmers' position in Canada, which he has not, nor probably ever will forget; that, not being blessed with a very strong constitution

he turned his attention to the study of law, but before completing his apprenticeship, an attack of ill health forewarned him that the pursuit of that sedentary and really laborious profession would be attended with serious consequences, and other circumstances being favorable, he made up his mind to return to rural pursuits, in the course of two or three years. It was this determination that led him to give some attention to the science of Agriculture, and to take part in an Agricultural paper. He has now been before the public as a writer on Agricultural topics for two years: and those who have read his productions, though written under many disadvantages, can judge whether he knows anything or nothing about the subjects he has attempted to discuss. He has felt, however, the necessity of having some person, of suitable literary and other attainments, who is either directly engaged in Agriculture, or has more leisure at his command than any one can have who attempts to practice the law associated in the management of the Agriculturist, in order to give it a high character for usefulness, and to adapt it thoroughly to the wants of Canadian Farmers. This assistance, it was supposed, the Editor of "The British American Cultivator" would have given: to what extent the reader has just been informed.

The Volume for 1849, and we trust many volumes thereafter, will have the advantage of the labours of such a person as we have mentioned. Mr. George Buckland, whose name our readers are already acquainted with, will be the chief Editor of the "CANADIAN AGRICULTURIST" henceforward. Mr. B. has had the very best opportunities to become fitted for such a post. Having been all his life engaged in the pursuits of Agriculture, practically and scientifically, in a country where it is conducted on the most improved systems, and where it is brought to the highest perfection, by the constant application of science, capital, skill, and everything that can conduce to its improvement, and add to its profits, we may confidently say that the paper will not, hereafter, be deficient in its Editorial department. A number of Correspondents, both in England and the United States, have promised assistance; and we hope those who have written for the paper during the last year will continue their correspondence, and that many others will enter their ranks. It is not the writings of the Editor of an Agricultural paper, that make it most interesting or most valuable. Unless he be assisted, prompted, and informed by Correspondents, who are daily in their fields, he must necessarily forget and neglect a thousand things, of the first importance. Liebig himself could not edit a paper that would be of general utility to practical farmers, without the suggestions and assistance of practical men.

The present Editor will give such assistance, especially in the Miscellaneous Departments, as may be required, in order to secure variety, and to make the paper as complete in all respects as possible. The inestimable blessing of health being restored, his intention of returning to the farm is for the present abandoned. The business of his profession will therefore demand the largest portion of his time. Still, as His Honor Vice-Chancellor Jameson remarked to us the other day, " Few professional men are so pressed with business but that they can find time to cultivate any study in which they delight." His Honor made this observation in allusion to his own experiments in Agriculture, which, notwithstanding the laborious duties of his Judicial station, he finds time to undertake and work out, upon a few acres of land, near the City. The usefulness and success of "The Agriculturist" will continue to occupy no small share of the writer's attention, until it becomes well established; and in withdrawing from the post of chief. Editor, he believes he is giving place to a more experienced and more efficient man, whose labours, he in freezing weather.

trusts, will be well received, and prove of great benefit to the Agricultural and general prosperity of our beloved country.

#### PROVINCIAL ASSOCIATION.

Our readers are aware that the next Meeting of this important National Institution, will be held at the city of Kingston, in the Midland District. It will be seen, by the following circular, from J. B. Marks, Esq., one of the Vice-Presidents of the Association, that he, at all events, is awake to the importance of making timely preparation for the Annual Show for 1849. It is to be hoped that the farmers and the farmers' wives of the Midland District will take the advice of Mr. Marks, and be up and doing. It mainly rests upon the people of the District in which the Show is held to supply the substantial contributions of stock, implements, &c., as well as the money -a share of which may be expected from other Districts; but these ought not to be depended on :-

To the Presidents of the County and Township Agricultural Societies in the Midland District.

> Office of the Agricultural Society of the Midland District. Kingston, C. W., Nov. 1848

Sir.-I acquaint you, for the information of the Members of the Agricultural Society and the inhabitants of the Township of that the members of the Provincial Agricultural Association have voted that the next Annual Exhibition of the Association, for the year 1849, shall be holden at Kingston, in the Midland District, to commence on the first Tuesday in September next, and continue for three

It is proper to make the time of holding the Exhibition known thus early, in order that all the inhabitants of the Province may have an opportunity of bringing forward at the show, such articles as come within their respective means of producing.

This great National Institution opens a wide field to the enterprising of every class. The supporting of which will give benefit and advantages alike to the merchant, the manufacturer, the tanner, the advantages and to the international and the international and the finer branches of gardening will have full scope for displaying the production of their industry, ability and exertion. The ladies department will extend to articles of taste, elegance and usefulness, including shawls, counterpanes, wearing apparel, &c., &c -Much of this work can be executed at a comfortable fire-side during the approaching winter.

In addition to what is above mentioned, the general feature of the Exhibition will consist in awarding premiums for all kinds of stock, and other farming products, domestic manufactures in all its branches, implements of husbandry, and labour-saving tools of all descriptions. The arts and other matters of taste will not be overlooked.

This great exhibition will bring into the district some of the best breeds of farming stock, machinery and implements of husbandry, a portion of which will, no doubt be purchased and remain in the district, and be the means of extending traces of its improvement, which will be visible for all time to come, and give an impetus to the spirited farmers in carrying forward our county and township cattle shows.

Ways and means must be provided for defraying the expenses of the premiums, &c., which will be struck off as liberal as possible.

We have in the Midland District and city of Kingston, about 5,000 names on the assessment rolls; a number of whom can be reckoned upon as subscribers to the Association from 5s. upwards to £6 each. This, together with the annual subscriptions of the members, the assistance of the Legislature, and liberal contributions of the other District Societies, will produce funds, it is hoped, that will be sufficient to give credit to the Province; therefore we must raise up our minds to the magnitude and usefulness of the subject.

Rouse up the industry of all the farmers and mechanics in your neighbourhood, and let the sluggards (if any) stay at home.

I have the honour to be, Sir. onour to be, 1511.
Your most obedient servant,
J. B. Marks.

President, A. S. M. D.

To the Chairman of the Agricultural Society of the Township of

CHEAP ROOT CELLAR .- Dig the cellar three feet deep, wall the sides. cover with coarse timber and slabs, and then with earth, and a window at one end, with a door at the other, will admit, free ventilation, except

# "IMPROVEMENT" IN BREEDS OF CATTLE, SHEEP. &c.

The following remarks, on the subject of Cattle Breeding, are from the pen of an experienced breeder in the State of New York. Mr. Sotham, as the reader will gather from his remarks is an Englishman. He is the person who, as we observed in a previous number, imported the Herefords into the United States. His stock of this excellent breed has carried off prizes at every State Fair at which they have been exhibited. Individuals from his breed are now to be found in almost every State of the Union. Lost fall we paid a visit to his farm, and saw some beautiful young animals, which were just starting for Cuba, having been purchased at the Bushalo Fair, by an agent of the Spanish Government.

The notion which a former Correspondent, Mr. L. F. Allen. endeavoured to establish, namely, that certain breeds of cattle are superior to all others, and have been from the time of their creation, downwards, (for that is what the argument amounts to, if it be good for anything,) finds but little favor in the eyes of Mr. Sotham. He appears to think, as we thought, and argued, with Mr. Allen, that the superior qualities of certain breeds of cattle are the result of skill and attention in breeding. Nature occasionally produces an excellent animal, without any apparent pre-arrangement or assistance from the breeder. A fair starting point is thus gained; and then, by judicious care in crossing with other animals possessing similar good qualities, in process of time apparently a distinct breed is produced, capable of transmitting its superiority. This appears to us a more rational, as well as a more philosophical way of accounting for the origin of the various improved breeds of cattle, (for there are several,) than to suppose that they were originally created with the distinctive characteristics they now bear. We leave the statements and reasoning of our Correspondent to settle the question for the present. They are plain and practical, and come from a-plain and practical man, who judges by what he himself has seen and done.

#### To the Editor of the Agriculturist and Canadian Journal.

Sir,-I have just received the back numbers of the present volume of your spirited paper, and have perused them with much interest and satisfaction. I regret that the discussion between you and the worthy President of our Society, L. F. Allen, Esq., had not come to my notice before. Had I seen it, I certainly should have expressed my views on that important subject. I am not at all disposed to go brok to tradition, or even to the history of each breed of cattle. Essays on this subject have been written, copied, and re-copied into almost every Agricultural Paper, both in the United Kingdom and in the United States. I am perfeetly willing to let those old volumes lie undisturbed; but I am not content to give them the credit of imparting the knowledge by which the breeders of the present "improved" race of animals gained their object. That has been effected by good, sound, practical judgment, and that not of very ancient date. I think there has been more " improvement" in England within the last thirty years, in cattle, sheep, &c., than there was in the whole time previous from " Adam" to the Messrs. Collings & Co. For instance, when but a beardless boy, I went to the first Cotswold ram sale of the late Mr. William Hewer, of Northleach, England: thirty shear hog rams were sold, at an average price of £7 13s. At that time Mr. H's ewes were coarse; many of the sheep penned had raw backs and bad crops. I can safely say that there were not three sheep amongst the whole lot which came anywhere near perfection. Many of them had very extraordinary rumps. There was one shear hog he called the grey sheep, and which ever afterwards went by the name of Old Grey. He was considered very near to perfection. This sheep was led out, after the sale, for the inspection of the whole company, but he could not be bought at any price. One hundred and fifty

guineas were offered for him, and refused. I never put my hand on a better sheep. His broad, level, fat back, and perfect symmetry. excited the admiration of all. His flesh was of the best quality. His barrel was as straight as his back, his bone firm, his fleece (which was produced with him) weighed fourteen pounds, and he had the least offal of any large sheep I ever saw. He was estimated to weigh fifty pounds per quarter, when but eighteen months old, by very competent judges. Almost every Cotswold breeder present wished to send an ewe or two to him, but Mr. H. refused all; and I can safely say that the produce of that sheep was worth more than one thousand pounds extra to him in three years from the date he was shown there. At the second sale, the average was £8 11s. 6d.; and at the third, when "old grey's" stock was offered, the average price was £14 17s. 6d. One sheep sold for sixty-two guineas, another for fifty guineas, and ever since the sales have averaged from fifteen to seventeen guineas. Old Grey.s face was as familiar to me as the face of any of my best friends: I knew him well, and valued his superiority. It would be a very difficult undertaking for the best mathematician to sum up the value of the improvement that sheep and his descendants made in England. Whether he was descended from the " Plantagenets," is a matter to be left to those who wish to investigate it. I am witness, with a large number of practical and scientific breeders, to a demonstrative proof of this decidedly valuable "improvement." Mr. H. having been so successful in the selection of his males, that the sheep his sons now offer, at their annual sales, are nearly uniform in symmetry and quality. The decided change in their flock of ewes was apparent to all who knew them: the coarsest were all drafted for the butchers, and they are now nearly all alike-on the borders of perfection; and they say they will not rest satisfied until the worst sheep is nearly equal to the best. This is the right spirit for breeders of male animals. Mark the improvement made by Mr. Jonas Webb and others, in the South Downs: the male was the first object.

Now, let us refer back to Messrs. Collings & Co. for the Short Horns. Who can value the improvement made by Hubback and his descendants. Take Mr. Bates' stock of Short Horns, and the Duke of Northumberland stands prominent in his favor, and claims the credit of his improvement. Mr. Lovel, of Edgecot Lodge, speaks in the same terms of his bull Anthony. The Herefords, a breed I think more highly of than any breed in the world, were much "improved" by Mr. Hewer's old bull Sovereign. He got more prize beasts than any other bull in his day, of any breed. Major (this bull won more prizes than any other known in England: from a calf to maturity he took seven first premiums. This was the bull I purchased when last in England; but, unfortunately, I lost him coming out) and Dangerous, by Mr. Turner's Goldfinder, and Mr. White's Upleaden Trojan, who offered to show him, when in his prime, against any bull, of any breed, in England, for one thousand guineas, and was not accepted. In the Devons the same rule will hold good, but I have no demonstrative information on that breed. It is the male animals that have made the improvement; but there are few persons who possess that good judgment to know when they have a good animal; and of the few who do know it, many like money so much better, that they are disposed of to the more enlightened. I consider a breeder of first class males one of the most important " improvers" in the . nation .- one who can be thoroughly depended upon. I contend for a thorough-bred animal on the male side. I have no objection to a cross-bred female for every other purpose but bull breeding; and  ${f I}$ know that a well bred male will improve any breed; and the poorer scrubs," in course of time, can be converted into better animals, for profit, than those bred by scientific in and in breeders. This course will do for a short period; but you may depend upon it that those who breed for permanent credit will never long pursue it; or breed a cross-bred bull. A bull bred in and in, of not too close an affinity, will make vast improvement, while crossing with other breeds; when a degeneration amongst his relations has been glaringly obvious. I have had occular, positive, and practical proof of this fact.

Those cattle you call "Natives" are the common Irish cattle of "all colour," having ragged chines and hips, large paunches, loose crops, and hard handlers; many of their hides appear as if they were stretched over their careasses with a pair of pincers. I can keep four Herefords, weighing one-third more weight, upon less feed than three of these large paunched animals can be kept on. Time must have its course to "improve" this kind of animal to any profit; and I think it would be much cheaper to start with a better class, although many of them are excellent milkers. I have no doubt that the "Natives" you can show us in Canada are an improvement of this breed, from a superior male of some kind, which a practical breeder could readily distinguish.

Yours, &c.,

WM. H. SOTHAM.

Black Rock, December, 1848.

#### A NEW MOVEMENT.

We have often thought that a great saving might be made by a number of farmers uniting together in the manner mentioned below, to dispose of their produce without the intervention of speculators or merchants. The probability is, that in the majority of instances, they would be gainers by the plan; but to realize all its advantages, they should send the cargo to the place or market of consumption. This would require a large number to unite and fit out a full cargo. There would be much greater risk in such an undertaking than in selling to the merchant at home, as well as a much slower return. The risk might be covered by insurance to a great extent, but not fully. But the additional gain would not warrant the farmer who wanted to use the profits of his harvest immediately in waiting the return from England; and if the money was drawn at our banks against the produce shipped for Liverpool or elsewhere, the premium or discount would reduce the profit considerably. If the farmers clubbing together in such a case, once gave their cargo into the the hands of consignors and consignees, factors, &c., they would to a certainty be fleeced. It therefore becomes questionable whether such a plan could be generally adopted with any sufficient advantage. A proper division of labour is found desirable in all departments of industry. If such a practice as that mentioned below were to become general, our merchants would be annihilated. The farmer would then become his own merchant; and if so, he would have to import as well as export, or else pay the import merchant twice as much profit on his importations as he now does, to make up for the loss of half his business. Would the farmer in such a case be the gainer? The plan may answer in a few cases, but we do not believe anything would be gained by its general adoption. The true remedy is to remove all restrictions, to break down all monopolies on our rivers and on the ocean. To allow the fullest competition among shipowners, carriers, forwarders, &c., &c., by which the cost of transporting from the producer to the consumer would be reduced to the lowest possible amount. Then the farmer might very advantageously leave the exporting to those who made a business of it :-

"Some time ago we informed our readers that a number of farmers of this township had clubbed their crops of wheat, ground it, and forwarded it to Montreal for sale. The result of this movement we now lay before our readers, in the words of an intelligent correspondent: Fourteen farmers reaiding in West Dumfries, having this year agread to club their wheat crops, and dispose of their flour in Montreal without the intervention of any agent, or the payment of any thing to factors or others for its disposal, they proceeded, immediately after harvest to get the wheat ground—some portion of it at Mr. Bowman's Mills, in Waterloo, but the chiefpart at Mr. Thompson's Mills, in Galt. Having got ready 428 barrels of flour, they despatched the same to Montreal, under the charge of our highly respected neighbour, Mr. George Landreth, who was enabled to dispose of it, even in the face of a fallen market, at 23s. 11d. per barrel; thereby realizing a sum of £15 1s. 4½d., after paying all charges and expenses, more than would have been gained had the same quantity of flour been sold as usual on commission. Mr. Landreth returned from Montreal on Wednesday, and having called his neighbours together laid a statement of his proceedings before them, and handed to each his proportion of the cash realized; and so well satisfied were they with the whole proceeding, that they unanimously agreed to send down at least thrice the quantity of flour in the spring, and adopt the same way for its disposal. Every one expresses the highest satisfac-

tion at Mr. Landreth's conduct in this novel undertaking, and the parties interested are satisfied that they have matured a system which will yet be of the greatest benefit to the farmers of Canada."—[Galt Reporter, Nov. 24.

DEEP DRAINING .- At the annual meeting of the Liverpool Agricultural Society, Lord Lilford, the chairman, said, with respect to deep draining, there was a difference of opinion, but facts would speak for themselves. He then read some experiments by a practical farmer. In 1845 he drained 175 acres of arable land, at a cost of £1,191, being an average per acre of £6 17s.; in 1845, 155 acres of arable and 20 acres of pasture land were drained at a total cost of £1,197 19s. 11d., the average cost of arable being £7 4s. and the pasture £4 6s.; in 1847, by the operation of deep draining, 120 acres of arable and 44 of pasture were drained at a cost of £1148, being an average cost on arable £7 and pasture £3 7s. The total of the three years' draining on 450 acres of arable and 64 of pasture, with 26 of level subsoil, was done at a total cost of £4,836 8s. 11d. That would give some idea of what was done in the way of deep draining, which was of great advantage to the land when every other means failed. Some remarks had been made as to the draining being done by the landlord, but what he had stated, was not accomplished on that principle. He mentioned several other instances where deep draining had been most effectual in various parts of the country, and concluded by observing, that the system which had been recommended of allowing the landlord to drain, and charging five per cent. on the outlay, was not at all an objectionable one; draining was necessary, in fact indispensable, and was for the natural advantage of the agriculturist and the owner of the soil .-- Mr. Ellison also remarked, that draining was being better understood than ever it had been before, and large quantities of land had been drained and brought under cultivation that was never considered capable of being so many years ago. Mr. Ellison also referred to the use of guano; he said in the year 1807 he raised a certam 7 acres of turnips on his farm, but this year, in consequence of the introduction of guano, he had been able to produce 54 acres, which was more than the whole parish put together produced in 1807, and that was by the use of guano. The individual who introduced guano had conferred a great benefit on the country.

The Norfolk System of Rotation of Cropping is well known to be the most successful ever devised; it has raised entire counties in England from sterility to the highest prosperity, and has extended wherever the soil and market were available. It consists of the following succession:—First year, manure, followed by turnips; second year barley sown with clover; third year, clover, the first crop cut, then depastured and ploughed for wheat; fourth year, wheat, succeeded by manure and turnips, as before. In this system the manure is followed by the plant requiring the most azotised matter; this is also a soda and sulphuric acid crop. Barley, the second crop, requires very much less azotised matter and exhausts the soil only of a limited amount of phosphoric acid and potash. This is succeeded by a lime plant, clover, which recruits the azotised matter and loosens the soil by its long roots. Wheat, which completes the rotation, is a potash and phosphoric acid crop, requiring a medium supply of organic matter. This rotation, when we consider the soil and the manures used, the former silicious and the latter barn-yard compost and bone earth, is a perfect embodiment of the foregoing principles. Reached entirely by experimental means, it is strictly conformable with science. In the following table, crops which may be substituted for the above are placed vertically under the principal plant. There is in the rotation for 'very soils, a mechanical impediment, arising from the difficulty of keeping them in 11th, which influences the plan; and in sandy soils, also, it is necessary that too many hoed crops be not introduced, and that grazing be practised to render the soil complete.

#### A ROTATION FOR CLAY SOILS.

1st Year. Corn.	2nd Year. Onts, Rye, Clover, or	3rd Year. Clover, Grasses.	4th Year. Potatoes, Beets.	5th Year. Wheat, Barley, Oats, Beans.	,
	Grasses.				

The Pea Crop.—We were surprised the other day, says the Journal des Trois Rivieres, to find in the pease a strange malady; fine looking pease, perfectly sound at the surface, and seeming well filled, contained in their interior a small worm or fly. We opened upwards of fifty, and they all contained the same germ of disease. We notice the fact in order to put the public on their guard; for if the pease are all attacked in the same way, the use of them would be dangerous to health. For our part, we would not use any without having opened them. We beg of our contemporaries to take notice of this malady and put consumers oe their guard. It is to be hoped that the disease is not general, which would be a public calamity.—[Quebec Mercury.—[We do not think this disease is general; but caution is necessary. We have heard of local destruction both of onions and carrots from a similar cause.]—Montreal Gazette.

#### CURING PROVISIONS.

As this is the season of the year when farmers are engaged in packing their stores of meat, we offer the following recipes, the value of which we have proved by our own experience .- [Albany Cultivator.

HAMS.—The following mode of preparing hams we have practiced for several years, and can with confidence recommend it to others :-

For every one hundred pounds of meat take five pints of good molasses (or five pounds of brown sugar), five ounces saltpetre, and eight pounds rock salt: add three gallons of water, and boil the ingredients over a gentle fire, skimming off the froth or scum as it rises. Continue the boiling till the salt, &c., is dissolved.

hickory, or the small twigs and branches of those kinds of wood,

Hams are sometimes cured by adding pyroligneous acid to the pickle; but having had no experience with this mode, we cannot speak of its advantages. Another mode, which we have seen practiced, is to smoke the tarrels or casks in which the hams are to be kept, and let them remain in pickle till wanted, only taking them out a sufficiently long time before using, to allow them to drain properly. The barrels are smoked by being placed over small fires of chips, cobs., &c., for several hours. The essence of smoke, which is thus imbibed by the barrel, is imparted to the pickle, and thence to the meat.

Whestphalia Hams.—The following compound will give to any common ham the taste so much appreciated in that sold as Westphalia, and is recommended to them who prefer that flavor. In one hundred parts of water, dissolve-four parts of salt, two parts of brown sugar, one part Barbadoes tar, and one part spirits of wine. After it has been well mixed, and stood for several days, three tablespoonsful may be mixed with the salt necessary to cure an ordinary ham.

-The best pieces for coming are the plates, ribs, and briskets. Pack the pieces in casks, giving a very slight sprinkling of salt between each piece. Then cover the meat with a pickle, made by boiling together, in 4 gallons of water, 8 lbs. salt, 3 lbs. brown sugar, 3 oz. saltpetre, 1 oz. pearlash, for 100 lbs. meat. Keep r heavy, flat stone on the meat, that it may be well immersed in the pickle. Beef packed in this manner will keep a year, and will rather improve than grow worse.

Another mode, recommended by a gentleman of long experience in the packing of beef and pork, is the following:—For 100 lbs. of beef, take 4 lbs. brown sugar, 4 oz. saltpetre, and 4 quarts fine Liverpool salt; mix all intimately together; and, in packing, sprinkle it evenly over the meat. Add no pickle. The dissolving of the salt, &c., with the juices of the meat, will be sufficient. Keep the meat closely pressed together by a good weight. We are assured that this is the best mode of packing beef that is intended for keeping over the summer, and that the quality of the meat is unexceptionably fine.

CLEAR PORE.—For this we prefer clear salt and water. After having divided the hog, take off the shoulders and hams, and all the lean meat; cut the sides crosswise into strips, four or five inches wide, and, after covering the bottom of the cask with salt, pack the strips in layers, set edgwise, as closely as passible, round the cask, with plenty of salt between each layer. When the cask is full, and has settled for a day or two, put in cold water enough to fairly cover the pork. There is no danger of using too much salt for clear pork; no more will be taken up by the meat than is needed, and the remainder in the latest and in actions again. mainder is safely left, and may be used in packing a new parcel.

TO MAKE A HOBSE STAND WHILE YOU MOUNT .- Get on and dismount four or five times before you move him out of his tracks, and, by repeating this any horse will stand still.

#### GATHER UP THE FRAGMENTS.

Families who kill their own beef and pork always have various odds and ends which may be worked up in such a way as to form some of the most wholesome and palatable dishes.

TRIPE .- Take the tripe as soon as practicable after it comes from the animal, rinse it well in cold water, and immediately sprinkle a thick coating of air-slacked hime over the inside : roll it up, and let it the till the next day, Then cut it in pieces, eight or ten inches square; scrape it, and put it in soak in salt and water, where it should remain seven or eight days, or till the strong smell is entirely gone, changing the salt and water every day. Then boil it tender. It may be soused like pigs' feet, or it may be broiled, fried with sausages, or dipped in batter, and fried alone.

the ingredients of the ingredients of the hams nicely cut and trimmed, packed in casks, with the shank end down, as the pickle will thus strike in better. When the pickle, prepared as above, is sufficiently cool, pour it over the hams. They may lie in pickle from two to six weeks, according to the size of the pieces, or the state of the weather, more time being required in cold than in warm weather. Beef or mutton hams, intended for smoking and drying, may be cured according to this mode, and will be found excellent.

Much of the goodness of hams depends on smoking. They should also be hung up with the shank end downwards, as this will prevent the escape of their juices by dropping. Small hams, wanted for immediate use, will answer with two weeks' smoking, but larger ones, and those wanted for keeping, should be smoked four weeks or more.

The probability of the liquor to cover them, as follows:—Take one quart of the liquor they were boiled in, two quarts of vine-being required in cold than in warm weather. Beef or mutton hams, intended for smoking and drying, may be cured according to this mode, and will be found excellent.

Much of the goodness of hams depends on smoking. They should be hung at such a distance from the fire as not to be heated. They should also be hung up with the shank end downwards, as this will prevent the escape of their juices by dropping. Small hams, wanted for immediate use, will answer with two weeks' smoking, but larger ones, and those wanted for keeping, should be smoked four weeks or more.

The feet and shanks of cattle, cleansed in the same manner as pigs' feet, are excellent. When sufficiently boiled, all the bones should be taken out, the meat and sinews immediately chopped fine, and seasoned with salt, pepper, allspice, summer-savory, and sage. When wanted for use, they may be warmed over in a little butter, and are nice, delicate enting—scarce inferior to oysters, which they somewhat resemble. They make equally as good souse as pigs' feet. The jelly which is left, after they a

excellent blane mange.

Satsaaes.—Chop 6 lbs. of lean with 2 lbs. of fat pork, 4 table-spoonsful of salt, 6 do. of powdered sage, 4 of black pepper, and 2 of cloves—a little rosemary may be added. If not stuffed, keep the meat in a tin vessel, tied down close; and when to be used roll it into cakes, dust them with flour, and fry.

#### CULTURE OF WHEAT.

A discussion in relation to this subject, by a Farmers' Club in England, resulted in the following conclusions:—1. Preparation of the land. The land is to be well cleaned, followed by grass or clover, depastured by sheep. Ploughed with a furrow eight to nine inches wide, and four inches deep. Heavy land to be as light as possible at the time of sowing, and light land to be made as heavy as possible. 2. Time of sowing and quantity of seed to be regulated by the season and state of the land—early in the season nine pecks per acre, and more as the season advanced. 3. Treatment of the crop. The crop is to be kept clean, and to be rolled in the spring, with one of Crosskill's clod-crushers. 4. Time of reaping. Early reaping—grain not allowed to get ripe before being cut. The Early reaping—grain not allowed to get ripe before being cut. The soil to which the discussion referred was described as of a limestone character. It is not stated whether a subsoil plough was to be used, or whether a greater depth of furrow than four inches was made at any time. We presume there is but little, if any land devoted to wheat in this country where so shallow ploughing would be advisable.-[Albany Cultivator.

#### CHARRING RAILS.

On almost all farms may be seen patches of rail fence which have been accidentally scorched by fire. Such rails never decay. Sun, wind, or rain seem to have little or no effect upon them. The question naturally arises, whether, in building new fences, they might not be made much more valuable by charring? It has been shown, conclusively, that the best time for cutting fenoing timber is in May or June, when the bark will peel. This should be immediately or sune, when the park will peel. This should be immediately stripped off, and the rails split and piled up, in order to dry. After being seasoned two or three months, take them to the bank of a small stream, and, having built a fire-of chips or brush, heave on the rails. When they are sufficiently charred, they can be hadled into the stream by means of a potatoe hook, or some similar instrument, and, when the fire is extinguished, they can be hauled out on the other side. I believe that a fence made of charred rails, and put up with an iron rod inserted through each corner of the fence, and solwith an iron rod inserted through each corner of the fence, and soldered to the underpinning stone, as directed in a former number of the Cultivator, would last fifty years, or five times as long as one one charred, with no trouble at all after being once put up. It is true the first cost would be considerable, but it would be cheap in the end. If farmers would take the trouble to chair their rails, they would not have to spend weeks in the spring of the year mending up old rotten feaces, nor have their crops half eaten up by unruly cattle. ruly cattle.

If any of your Correspondents have had any experience in charring rails, they would confer a favor by making it known through the ing rails, they would conier a tave Cultivator.

A Young Farmer.

A Young Farmer.

22nd September, 1848.

#### FARMERS' MUTUAL INSURANCE COMPANY.

Many of our readers are probably aware that a class of Institutions have lately sprung up in the United States, and we believe also in England, for the Insurance of Farmers' property, as distinguished from Village or Town Property. These Companies, so far as their operations have extended, have been eminently successful. They are able to insure at from one to two per cent., when other Companies would charge four or five per cent. They have the advantage, moreover, of being perfectly safe; when once in successful operation, it is impossible that they should break down, being strictly Mutual, expenses light, and the risks unhazardous: no one conflagration causing a loss beyond a given amount to the Company—never more than one, or at most two insurances.

More than a year ago, while conducting the Canada Farmer, we gave an exposition of the principles on which these Societies are founded, and strongly urged the formation of one here. Since that time, Agencies have been established by American Companies, and Travelling Agents sent over the Country. This we have been sorry to see, for several reasons, but chiefly because it will interfere with the successful establishment of one of our own, which would be much safer, and infinitely preferable to the foreign Companies. As the Companies are not amenable to our laws, in case of dispute the insurer is practically without a remedy; they may pay or not, pretty much as they like. The history of a case which occurred at Hamilton, last summer, in which the party had to go backwards and forwards to Buffalo three or four times, with a number of witnesses, at a great expense, and contend against all sorts of objections and quibbles, for months, before he succeeded, ought to be a warning to Canadians when asked to insure in foreign and unknown Companies.

We understand that one of these pretended Farmers' Companies has already departed from the principle—a strict adherence to which forms their only safeguard, viz., to insure no property that is exposed or hazardous! The moment they do this, they are guilty of great injustice to all previous members of the Company, and lose all the advantages they possess over other Companies.

Under these circumstances, we have determined to make the attempt to get up a Company in Canada, as soon as a Charter can be obtained. Those Farmers in the neighbourhood of Toronto, who are favorable to the project, and are willing to take part in its formation, will please call at the Office of Messrs. Gorham & McDougall, South West Corner of King and Yonge Streets, Toronto, as soon as they can find it convenient.

#### MAKING VINEGAR-INQUIRY.

Mr. Batenan,—I have a quantity of cider which I desire to convert into vinegar, in the shortest and best manner. It has passed through the vinous fermentation, and I am told there is some method of hastening the acetous process by artificial means. If you, or any of\_your correspondents, can inform me and the public, through the Cultivator, it may confer a benefit on others, besides

Zanesville, Ohio. Yours, &c., J. Townsend.

Remarks.—We believe the most approved method of rapidly converting cider into vinegar is by causing it to run slowly through a long series of open throughs or conductors, in a warm temperature. But the exact manner of doing this, or the temperature required, we are not able to state. The object is, to expose the liquid as much as possible to the action of the atmosphere. We have seen this effectually done by causing it to run slowly from a barrel placed up stair, through an aperture in the floor and ceiling, on to a loose pile of fine sticks or shavings below, through which the air could pass through freely, then draining into a cask in the cellar.

All chemical applications of acids or other drugs for making vinegar should be discarded as unwholesome and dangerous.

We should be pleased if some one who has experience in the business would answer the above inquiry.—[Ohio Cultivator.

Canker Worm.—The most common mode of preventing the ravages of this insect is tarring the trees. As they sometimes appear in the fall or early winter, if the weather is favorable, and ascend the trees, where they deposit their eggs, which are hatched the ensuing spring; the tarring, to be effectual, must be applied at that senson, as well as in spring. The tar is injurious to the trees, binding the back and checking the circulation of the sap; to prevent which it is best to fasten cound the tree a belt of old canvass or coarse cloth,

first applying to this a coat of clay wash, to prevent the tar from striking through, and afterwards tarring on that. The tar should be made soft by adding cheap oil, and should be applied with care every evening, just before dusk, as the insects move principally in the night. Circular troughs of lead in which oil is to be kept, have been contrived to put round the trees, but we are not able to say, whether they have been found so useful as to supersede the use of tar. Ploughing the ground around trees infested with canker worms, late in the fall, and thus exposing the insects, many of which are then in the chrysalis state, to the action of frost and air, has been found useful —[Albany Cultivator.

OATMEAL.—The Journal de Quebec, speaking of the great abundance of oat crops this year in Lower Canada, says that the present low price of this article is not likely to be of long continuance, it having been proposed to export considerable quantities in the shape of meal to Ireland, as a sub-titute for the failing potato crop. It contains much more nutritious matter than the potato, and was before the introduction of wheat into many parts of Scotland, the principal food of a large number of the inhabitants.

"Book Farming."—Samuel Williams, of Waterloo, says:—"I know a farmer who has pand over \$300 for a private library, and who takes both the Albany Cultivator and Genesee Farmer. In proof that he is something more than a theoretical farmer, he sold the surplus products of his farm last year for over \$2,400, and he paid out of the same but \$90 dollars for hired help—he has no children old enough to work in the field. It is hardly necessary to the supplied of the age."

Kioney Worms in Swine—A farmer in Delaware County, Pa., lost a hog, after protracted disease; in the following year three died; and in the succeeding year five more, the symptoms in all being the same; and all those which were attacked with the disease, or died, were barrows, or males. On a careful post mortem examination of those that died the last year, it was found that they were afflicted with gravel, which was discovered in the bladders and in the urethra, obstructing the passage of the urine. In one case the bladder burst, and its contents discharged into the cavity of the belly or abdomen. The vessels of the kidneys, and those leading to the bladder, were distended by a partially indurated secretion of matter, which, when rubbed between the fingers, discovered particles of a sandy character, presumed to be the same as those obtained from the human subject. It is worthy of remark, that although there was the usual proportion of females in the stock of hogs, none of these were visibly affected by the disease; in that respect following the same general law noticed in the human family.—[Ex.

Ilow To Manage a Kicking Horse.—First, make a stall or pen for your horse, in which he cannot turn round, and with slats, through which you can put your hand to rub him in the face, and all over, two or three times, raising his tail gently three or four times, then touch one of his fore legs, and say to him "foot, foot," until he shows a willingness to raise his foot; raise his foot up and put it down some three or four times, and then go all round until fear is removed. All you wish a horse to do ought to be done three or four times, repeated two or three days in succession.

A Good Hint.—The Madison Courier, remarking upon the rage of the public for newspapers containing an extra amount of reading matter, says, "If reading matter alone be their object, they will find enough that is new to many of them in the Bible; and it is good reading too.

To remove dust from the Eve.—Immerse the affected eye in a vessel of clear cold water, and then rapidly open and shut it a few times, when the dust will be washed away.

Hens, should have access to lime and gravel, while the ground is covered with snow.

FINE PICKLED CABBAGE,—An exchange paper gives the following directions for making this excellent and wholesome relish:—"Shred red and white cabbage, spread it in layers in a stone jar, with salt over each layer. Put two spoonfuls of whole black pepper, and the same quantity of alspice, cloves, and cinninon, in a bag, and scald them in two quarts of vinegar; pour the vinegar over the cabbage, and cover it tight. Use it two days after."

DISINFECTING PROPERTY OF COFFEE.—Coffee is one of the most powerful means not only of rendering animal and vegetable effluvia innocuous, but of actually destroying them. A room in which meat in an advanced degree of decomposition had been kept some time, was instantly deprived of all smell, on an open coffee roaster being carried through it, containing a pound of coffee newly roasted. In another room, exposed to the effluvium occasioned by the clearing out of a dung-pit, so that sulphureted hydrogen and ammonia in great quantity could be chemically detected, the stench was completely removed within half a minute on the employment of three ounces of fresh roasted coffee; whilst the other parts of the house were permanently cleared of the same smell by being simply traversed with the coffee roaster, although the cleansing of the dung-pit lasted for several hours longer. Even the smell of musk and castoreum, which cannot be overpowered by any other substance, is completely dispelled by the fumes of coffee; and the same applies to the odour of asafætida.—[Medical Gazette.]

#### HORTICULTURE.

#### AUTUMN PLANTING OF TREES.

Even in the same localities there exists the greatest diversity of opinion respecting the propriety and impropriety of autumn planting. Some say they have never succeeded in the fall; others, that they have never failed. Our own opinion is, that, even as far north as this, the 43rd degree of north latitude, all hardy trees are transplanted with the greatest safety in the fall; provided it be done early, say the middle and latter end of October. There may be circumstances, such as damp ground and very exposed situations that would render spring planting advisable; but these are exceptions.

Mr. E. C. Frost, of Catharine, Cheming County, an experienced grower, says, in the September number of the Cultivator, "My experience has confirmed me in the opinion, that, in our latitude, fall planting, for the peach, is better than spring, if set on dry ground—and they should be placed on no other. On the 5th, 6th, 8th, and 9th of November last, I set in the orchard one thousand five hundred worded or budded peach trees; and now, on examining them, I find that all are alive but ten; and act only alive, but making a good growth, so that the rows can be seen half a mile." He adds, "I have six hundred peach trees which have been in the orchard from three to five years, the most of which have been transplanted in the fall, with success equal to those set last autumn." Our own practice is to transplant all we can in the fall, not because we consider it the only safe season, but because we have more leisure then than we ever have in the spring. We hold that there is no necessity for failure, either in the spring or fall.

Late last fall, after we had supposed business closed, we set some men, for the sake of employing them, to trench a piece of ground we intended for dwarf pears. The weather kept open till it was completed, and we planted the trees, some sixty or so, quite contrary to our expectations. It was about the second week in December. The trees were yearling buds, on quince stocks; they were cut back till within a foot to eighteen inches of the stock, and planted, and not a failure occurred in the sixty, and all have grown from two to four feet this season, and are now fine bushy plants. Some that were planted last spring have not grown with half the vigor.

On the 25th of April last we transplanted some twelve or 14 cherry trees, after the leaves were an inch long. Not one died; but, on the contrary, we can measure on every one of them two to three feet of growth. They were cut back properly, planted well, and kept as they ought all summer. Here are two extreme cases, and both successful.

Now, fall planting may be commenced at any moment with trees that have quit growing, and show a good, plump, perfect terminal bud. If the leaves are not removed by frost, they should be cut off the moment the tree is dug, or before it; as, if left on, they will cause the tree to shrivel up ruinously. The best method of supporting fall planted trees is to throw up a cone of earth around them, twelve or eighteen inches high; according to the size of the tree. This prevents both frosts and winds from acting injuriously on the tree. The earth can be levelled down again as soon as the ground thaws in the spring.

A certain amount of pruning, or shortening back the top and branches of the trees, is indispensably necessary in transplanting. In the case of fall planting, this pruning may be deferred till spring; particularly with peach trees; but it must not be neglected. We believe that vast numbers of the trees are lost for the lack of this shortening of the limbs when planted; and particularly peach trees, that usually have larger heads than other trees, and therefore require a greater amount of cutting. Divers whitever of any experience knows how much more certainly, quickly, and vigorously a tree will start in the spring that has been planted entire. The palance of a tree is destroyed in digging it, for it is impossible to remove trees without depriving them of some portion of their roots; or, if the roots are not cut off, many will perish in the removal. The balance must be restored, before the tree can grow vigorously; and this can best be done by removing a part of the top corresponding with the loss of the root.—[Genesee Farmer.

#### TRANSPLANTING EVERGREENS.

A right taste in planting evergreens as ornamental trees, seems gradually diffusing itself all over the country. But the failure frequently attending the successful transplanting of evergreens, deter many from attempting it. This species of trees, will not, like the willow and many others of the deciduous trees, bear the loss of a large portion of their roots—the spongioles, when once dried, never again expand or perform their proper functions. Persons ignorant of this fact, take up pine, hemlock, and others of this class of trees, with as little care as they would an elm or maple tree. But the evergreen, with its roots thus mutilated and exposed to the sun, or even for any considerable time to the air, will have its half woody rootlets shrivelled, and however carefully the transplanting may be performed, its death is nearly certain in course of the following summer.

To guard against this loss of labour, and trees, several methods have been recommended. One of which is to cut a trench late in autumn around the roots of the trees to be removed, leaving a ball of cartil about the roots, proportioned to the size of the tree; after this is frozen, during the winter, the trees, with the frozen ball of earth, are to be lifted by the aid of a stout lever. They can then be drawn upon a sled and placed the north side of a barn, or other building, and having straw, old hay or saw dust packed about the frozen balls, they will remain uuthawed, till the proper season comes round to set them out. In this way the original soil about the roots is undisturbed, the trees are sure to live, and scarcely receive any check in their growth.

A method is recommended by a correspondent of the April No. of the Horticulturist. His method is, to provide, according to the number of trees to be taken up, a sufficient quantity of "old matting, sacking, canvass. &c., with a ball of cord of proper size and strength, and a well tempered spade, ground to a fine edge." With the spade, cut round the trees at a suitable distance, the trees are then to be lifted and placed upon the canvass, or matting, which is to be snugly laced by the cord around the ball of earth, in which condition they can be safely transported long distances, and at almost any season of the year when the ground is unfrozen. In the country, many persons might find it difficult to procure the requsite quantity of matting canvass, cord, &c., for the removal of any considerable number of trees.

We will suggest a method that we believe will answer the purpose exactly. But to begin right, the holes, for planting the trees, should be prepared by casting up the excavated earth upon one side of them in a compact heap, to be used in filling in about the roots of the trees, as they are set out. The trees are to be taken up, with the balls of earth, as already directed, and left upon the ground until the outside of the ball of earth is frozen, which frequently may happen ay one night's exposure. They can then be removed on a cart or waggon to the place where wanted, and immediately planted without having the soil about the roots loosened or disturbed. Very few if any trees would fail to do well, if planted in this way. It is an easier way than cutting up the frozen ground in the winter; and cheaper than that of binding up the roots with matting, canvass, &c.

It is now a leisure season of the year compared with the spring. We hope many of our friends in the country, where the various evergreen trees can be so easily and cheaply obtained, will this autumn ornament their yards, gardens and premises with these "beauties of the forest.'.

#### FLORICULTURE.

As an Englishman, fancying that we are the Gardeners of the world, you may judge my surprise on visiting the garden of Mr. Kock, which is situated in the midst of this city, (Cologne) to find ourselves fairly beaten. This gentleman who is a silk manufacturer, devotes his entire time to his garden, and may be said to live in it—so passionately fond is he of his flowers. He showed me, at one coup d'æil, 30,000 Camellias, of which he possesses 7 varieties. After walking through a splendid avenue of Magnolia trees, we came to several beds of Tree Pæonies of 14 years' growth, consisting of 129 varieties; and at the end of the path was a fine specimen of the Pawlownia Imperialis. The Azalea beds were no less remarkable, containing 300 varieties; and under glass, were 15,000 Cacti. To produce these varieties, he has an apiary of 400 hives, which yield 1200 lbs. of honey annually; and by the system pursued by him, the Bees are never destroyed. To visit this gentleman's garden in the month of May, would be a treat to your travelling readers, who may be pleased to know that such a garden is to be seen, and is willingly shown by its polite owner.—[Gard. Chron.

The Grape in Texas.—The Lavaca Herald mentions that Captain Hutch engrafted a species of the "English grape" on a vigorous vine of the Mustang kind, and such was the life and vigor infused into the young graft, by the stem, that in the course of one season it entirely covered a large oak tree, around whose trunk the wild vine had been accustomed to cling for support. The young vine bore the first season, remarks the Herald, at the lowest calculation, 600 bunches of grapes.

Cholera.—Now that the cholera is occupying so much of the attention of the medical gentlemen of Europe, it is our duty to chronicle such facts as tend to the discovery of the cause, or of the prevention of the plague. It has been remarked that the cholera never attacked those persons who live in the neighbourhood of breweries, or of mineral Springs, where they breathe freely of carbonic acid gas. This fact has been established by proof in England, Spain, and Germany, and from it we may infer that the morbid germs of disease are occasioned by animalcules, which are destroyed by the presence of this gas.—Canadian.

Intense study of the Bible, says Coleridge, will keep any writer from being vulgar in point of style. STRIVE TO GO BEYOND.—Let no man who is endowed with perseverance despair on account of the lowness of his birth; let no state, however small its beginning, despond of rising above its mean original. The dominion of the world (obtained by Rome.) was not a scheme planned beforehand; it resulted from the judicious employment of contingencies.—[Von Muller.

How to Look Young.—An aged person being asked how he had managed to retain his youthful appearance so well as he had done, said, "I never ride when I can walk; I never eat more than one dish at dinner; and never get drunk. My walking keeps my blood in circulation; my simple diet prevents indigestion; and never touching ardent spirits, my liver never fears being eaten up alive." But he forgot to add one of the greatest causes of all lasting youth, viz: a kind, unenvious, contented heart"." Eavy and discontent can dig as deeply into the human face, as Time itself!

- "I hate to hear people talking behind one's back," as the robber said when the constable called " Stop thicf!"
- "Whatsoever thy hand findeth to do do it with thy might; for there is no work, nor device, nor, knowledge, nor wisdom in the grave, whether thou goest."—[Ecel.

#### EDITOR'S TABLE.

#### IRISH NATIONAL SERIES OF SCHOOL BOOKS.

These School Books, compiled under the superintendence of the Irish National Board of Education, are justly held in high estimation by all who have examined or used them. The object of the compilers was to prepare a sett of books, beginning with the elementary, and ascending to the higher branches, by easy steps, which should contain everything essential to the pupil's progress in learning and science, and nothing offensive to the religious, political, or moral feelings, opinions, or prejudices of any parent or scholar. In this, as far as we have heard or can judge, they have eminently succeeded.

The Board of Education for Upper Canada has sanctioned their introduction into our Schools; and those enterprising publishers the Messrs. Brewer, McPhail, & Co., of this City, have already published five of the Series, in a creditabte style, and at a considerably less price than they could be imported for. The Fifth Book has just been issued, and a copy laid upon our table. It comprises the following subjects, with their appropriate subdivisions, illustrated and explained by numerous cuts:—Physical Geography and Geology; Physiology, Vegetable and Animal: Natural Philosophy: and several pages of selected Poetry, for reading exercises. This book is sold, retail, for the small sum of 2s., and will prove an interesting and valuable compend on the above subjects, even to the general reader.

#### TRANSACTIONS OF THE NEW YORK STATE AGRI-CULTURAL SOCIETY FOR 1847.

We have just received, per express, a copy of the above Transactions from B. P. Johnson, Esq. ( Albany, the Society's able and zealous Secretary. It is a large volume containing 800 pages of :matter of great variety and usefulness, illustrated by a number of well executed cuts. In a note accompanying the book our attention is directed to a letter stating the results of a trial of American and English ploughs, by a Mr. Love, of Northamptonshire, England. This reference is made in consequence of the remarks in our last No. on the Ploughing Match between Canada and New York. We have not time or space at present to say much on the question. We have not been able to discover any indications of an intention to take up the proposal as modified in our last number to settle the dispute by actual trial, as to whose ploughmen and ploughs are best. We cannot give up the point upon the alleged result of a single trial by a single farmer in some part of England, between his own English and two or three imported American ploughs. We would rather see the trial fairly made here, in such a manner as to leave no doubt as to the respective merits of the American and Canadian implements for our soil, i. e. the ordinary clay soil of the State of New York and Cana-

da. When our friends feel disposed to test the question in the manner mentioned it the conclusion of our remarks on the subject in No. 15 of this Journal, we shall be happy to meet them. Until then we must be allowed to retain the opinion expressed in our account of the Fair at Buffalo.

We are much obliged to Mr. Johnson, for his kindness in sending us the "Transactions," and most willingly comply with his request for a copy of our Journal for the Society's Rooms at Albany

AGENTS -Several persons who have acted as travelling agents for the Agriculturist, and some for the Canada Farmer, are yet in arrears to a large amount. In the the first place, the giving credit to subscribers was an exception to, or a relaxation of the rule requiring advance payments. It was thought a necessary exception in certain cases, in an equence of the great scarcity of money at the time the subscriptions were taken; but, as these agents will recollect, they were frequently enjoined not to take the names of many credit subscribers, and only in cases where there was a probability of the subset ption being paid when promised. Time enough surely has elapsed since these names were received, for all who were willing to pay to have done so, if called upon. We hope, therefore, those agents who are in arrears are prepared, as the end of the year is at hand, to settle up by paying us our share of what they have collected, and sending us a list of those subscribers who have paid and those who have not. Two agents have stated that they met with subscribers who refused to pay because of the change in the publication of the paper. On this point we have made some remarks in another place. The names of those who refuse to pay, if any there be we wish our agents to mark, stating the reasons.

As we promise to send three numbers of the volume for next year to all paid subscribers, it is necessary we should get these lists, in order that we may know who have paid.

CREDIT SUBSCRIBERS who intend to pay, and have not yet been called upon by the agents who received their names, will please transmit their subscription to us by post (mentioning the agents name), we will pay the postage.

With regard to the disappointment complained of, we have but one word to say here in addition to what we have said elsewhere. If all the subscribers to whom we have sent the paper (although a much less number than we had calculated upon) had paid in advance, the paper would have been published twice a month during the year, notwithstanding the personal difficulties in the proprietorship.

- A. Mc.L., Oakwood, Nov. 23rd—received. We will try and get the list right this time. The names were entered as you directed on the Mail Book, but we suppose they got by mistake into one package.
- A. M., Port Robinson, Nov. 28th.—There is a large list of subscribers at your P. O., a number of whom, we believe, have not yet paid. We hope soon to get a return from our agents of such persons; but in the meantime will feel obliged for similar attention to the present. All Post-masters who take the trouble to write us sending money, or giving information, will entitle themselves to a copy of our publication for 1849.
- J. E., York.—We are sorry to say that the poetry is not good enough as it is, for our publication. And we have not the time, nor are we just now in sufficient favor with any one of the Nine, to undertake its correction.
- J. E., York, Nov. 23rd,-same answer to you.
- J. G., Mulmer, Nov. 25th—received. You shall have the volume complete.
- J. S., "uelph, Nov. 13.—Mr. W. harded your note. Your remarks on a particular subject have been thought of. As soon as we can make a few more enquiries and get a little leisure, we will write to you...
- A. G., Etobicoke.—We like your prose better than your poetry. The manuscript sent has been mislaid, or it would have been given to the printers. Perhaps you will re-write and improve it?

#### THE LADIES.

#### MANAGEMENT OF THE SICK ROOM.

The following observation . the proper management of the sick room will not perhaps be unacceptable to our female readers. They are taken from a recent work on this subject compiled by a lady of great experience in such matters, and revised by a distinguished medical man. The care of the sick comes peculiary within the province of the weaker sex, and however solicitous they may be to alleviate the wants of the sufferer if they lack the knewledge, their efforts will, to a great extent, be unavailing. :

The sick should always be addressed in a gentle voice, and murred with in the most cheerful manner. Their attendants conversed with in the most cheerful manner. should express sympathy for their sufferings, but endeavour to inspire them with courage and resignation in bearing them. To ridicule or make light of the pain of another is always unfeeling, and may often entail serious consequences, as the patient's recovery frequently depends upon the equanimity of his mind.

All unpleasant news should be entirely withheld from, or very earefully communicated to a person who is ill; he should be diverted, and kept as cheerful as possible, for recovery is hastened or protracted, more than the generality of nurses suppose, by the moral treatment which the patient receives.

As soon as the patient is convalescent, he may be read to; but such works must be chosen as afford interest without excitement, especially those which have a tendency to elevate the state of the mind, which, during a recovery from severe illness, is particularly impressible.

The chamber should be kept in perfect order, and free from noise and confusion. If the eyes of the patient are not weak the room should not be darkened, as the rays of the sun, especially of the morning sun, have a vivifying and renovating influence.

If the person has no appetite, he should not, in most cases, be

tempted or coaxed to eat; and only very small quantities of food

should be administered at a time.

of chilliness

The food for the sick should be prepared in the most delicate and careful manner; for as the senses are for the most part, during illness, particularly susceptible, the appetite may be entirely taken away, and nausea produced, by the least uncleanliness, a smoky taste, or an offensive smell. The food should not only be delicate and well prepared, but it should be served in a neat and inviting manner.

Always spread a clean napkin over the bed-clothes and another upon the pillow, when you are administering food. Sponge the hands and lips of the patient as soon as he has done eating.

Wash every article the instant it is used, and do not keep the tables or mantle-piece filled with vials, pill-boxes, &c., for if they are within sight of the patient this practice will annoy him, besides, many of the vials may contain mixtures that render the

Every article of furniture should be kept in order, that the

room may have an air of cheerfulness and comfort.

The room should be well supplied with water, towels, napkins, a slop-pail, two nice saucepans, a tea kettle, a couple of bowls and tumblers, several cups, saucers, and wine-glasses, several large and small spoons, and a foot-bath which should be kept in an adjoining closet.

All vials and papers of powders should be carefully labelled, as one medicine muy be mistaken for another, and sometimes poison be administered by neglect of this caution. The instant a bottle is empty cleanse it thoroughly with warm water; throw away all pill-boxes after their contents have been used. Do not give them to children as play-things, as they are generally impregnated with the medicine they have contained, and may do injury.

Pure air not only contributes to the preservation, but to the restoration of health. A sick chamber should be ventilated at least twice a day. The process of ventilation should be as short as possible, the patient must be well covered, and even his head kept beneath the bed-clothes if he experiences the slightest sensation

The bed-clothing should be changed twice a week at least; the bed must be made every day, and if the patient can bear it twice The bed-clothes should be carried into another room and nired before they are replaced upon the bed, as all exhalations from the body during sickness are particularly deleterious, if reabsorbed.

The person of the patient should be kept perfectly cleanly, and his garments frequently changed. Daily ablutions of the whole person with warm water are very servicable. The mouth should be often rinsed and swabbed with a fine linen rag, kept for that

purpose, and the teeth kept perfectly clean.
When a sick person is raised up to take food he should be always covered with a blanket or shawl, and never leave the bed

for an instant without additional covering.

When a physician is in attendance he should be consulted concerning the best place of purchasing medicines, (if in a city,)and the medicine should be shown him before they are used for fear that they may be adulterated, or of an improper kind.

Describe to the physician the patient's minutest symptomsuse no deception in communicating either his mental or his bodily

afate.

Pay strict attention to the physician's directions, if they are numerous note them down, and obey them strictly. Even a trivial deviation from his orders may be attended with unpleasant consequences.

The person who has charge of the sick should possess a quiet and even temper, be naturally cheerful, very patient, and disposed to bear with the most unreasonable fretfulness and irascibility.

Do not reprove or attempt to argue, with a person who is very ill; he can hardly be considered a responsible being, for the mind is not generally in a healthy state when the body is disordered. If you are forced to oppose his wishes, do so gently, but without reproaching or rebuking him, as you should carefully avoid all causes of excitement.

The dressing of a blister is a very simple process, but not generally understood. Lay the blister bare, wash it gently with a very fine linen rag, dipped in warm water; place another piece of linen several times doubled below the blister, and then with a needle, or very sharp scissors, puncture the lower part of the little bags of water, breaking the skin as little as possible. Melt together a little fine beeswax and tallow—spread them on a piece of linen and apply them to the blister. Blisters should be dressed twice or three times a day, and each time a fresh salve of beeswax and tallow should be used.

The practice of burning pastiles, brown paper, &c., in a sick room is an injurious one, and does not as it is supposed, purify the air. Frequent ventilation is the best mode of preserving the

air pure, and should be resorted to freely.

#### DIET DURING DISEASES.

We shall occasionally select some of the practical directions from the work alluded to; the following are all we have space for at present :-

General Diet.—Most persons not acquainted with phisiology, imagine that the flesh of young animals, or of birds, is more delicate than that of grown sheep or oxen; and will hence recommend an invalid or convalescent, with his digestive powers commend an invalid or convalescent, with his digestive powers enfeebled, to "try a bit of boiled veal, or a chicken, or a rabbit, or, perhaps, advise a little soup or jelly, &c." Now, it is certain that, in ninety-nine cases out of a hundred, a slice of boiled leg of mutton, or a broiled mutton chop, would be infinitely preferable to any or all of these, as being more digestible. The term delicate is totally inappropriate to food of any kind: if it be used instead of tender, then all meat advanced a stage towards putrefaction is more tender than quite fresh, and is really more whole-some. If by "delicate," digestible is meant,—that is, the food which is soonest converted into chyle, and assimilates to the corporeal substance of the cater, then a mutton chop and bread will prove a more delicate breakfast than buttered toast, muffins, hot rolls, and chocolate.

A pudding for an invalid should be boiled tender in milk, and of a good thickness, so that the eggs may just set it, and give it firmness to stand without breaking, when turned out of the mould. The pudding cannot be made too delicate: it should be well baked for about an hour, or more, according to the size; and it should never be taken from the oven until two or three minutes before wanted.

Pulmonary Consumption.—The dietic treatment of this disease must be varied according to its stage or progress of advancement. In the primary stages, if there be no derangement of the digestive organs, light farinaceous substances, with a proper proportion of animal meat, may be allowed. Fish, milk, eggs, &c., may be occasionally substituted for the meat. Asset milk, as containing a small proportion of butter and curd and much sugar, is, with justice, esteemed a favourite aliment for consumptive persons; being light and easily digested. When any tendency to pleurisy is evinced by a sharp pain in the chest, and other signs, solid animal food ought to be omitted, until this is removed. In the latter stages the diet may be nourishing, and may contain an average allowance of animal food; but great care should be taken not to overload the stomach, so as to excite indisgestion or quicken the breathing. Diarrhæa is very apt to occur at the later periods of the disease; on this account fruits and green vegetables should be sparingly used; for if once excited, it is always difficult to cure, and frequently can only be alloyinted.

Diarrhæa, Dysentery, Cholera.—In these affections the stomach and bowels are in a state of high irritation, and their functions of assimilation are more or less impaired. Articles of diet, which, during health, are digested with ease, produce in such diseases great distress and aggravation of the symptoms. It is fortunate that nature has provided a check to any improper indulgence; for, in extreme cases, nausea or vomiting is a common accompaniment, and, in almost all, there is a disrelish for food. Tea or coffee, with bread thoroughly toasted, arrow-root, isinglassjelly, containing only aromatics and a small portion of sugar nr milk diluted with water, may be used as diet in these affections. The drinks may be included in the following list, namely, toast water soda water, pure water, and occasionally infusion of mace (mace tea.) where there is nausea or vomiting.

## SCIENCE AND MECHANICS.

#### SURVEYING AND MEASURING INSTRUMENT.

A new and useful machine has recently been invented by a gardener, at Mayor, in the north of Scotland, which can be applied to the measurement of heights, distances, land-surveying, levelling, &c., &c. It solves the various problems in trigonometrical and triangular measurement, in such a short space of time, and with so little calculation to the operator, as entirely to supersede the use of the thodolite, circumventer, plane table and various other instruments bit herto in use—the grand principle being, that it is a "self-calculator," requiring scarcely the aid of a pen or or pencil from the operator. By this machine, a field, it is said, may be measured, and the plan of the same laid down from the centre or any convenient place, either within the boundaries of the field, or from a distance without the limits of the ground, provided a view of the margin of the same, or even the angles or corners be within sight of the surveyor. Another purpose to which it can be readily applied, is laying the line of roads or railways, canals, water courses, &c. It can also show the depth of out required on any eminence or hill that may be in the route. In the topographical department this instrument may be of the greatest value to an army, in finding the distance to the walls of any fort that may be unapproachable, and the height of the same may be taken instantly without quitting the camp.

IMPORTANT SURGICAL DISCOVERY.—The Boston Evening Journal states that Mr. Samuel L. Bigelow, a teacher in the Tremont Medical School, has made known a discovery of the highest importance as it regards Surgery. It consists in a new and certain method of procuring the union of incised wounds by first intention in a few hours. A paper was read before the Boston Medical Society by Dr. J. H. Bigelow, a surgeon of the Hospital, who stated that it had already been introduced there with success. It is said to be a preparation of gun cotton and sulphuric ether—the two great lions of the day yoked in someway for drawing together wounds.

Scientific Convention at Philadelphia.—The first Annual Convention of the "American Association for the advancement of Science," met at Philadelphia on the 20th of September, and continued in session five days. A large number of distinguished scientific gentlemen were present, from different parts of the country, among whom we noticed the names of Professor Agassiz and of Professor Henry, of the Smithsonian Institute. After the organization of the Convention, it was divided into two sections, one embracing General Physics—mathematics, chemistry, civil engineering, and the applied sciences generally; the other including Natural History—geology, physiology, and medicine. Each section held separate meetings, at ghick were read papers on various important scientific subjects, and interesting discussions held. The deliberations were harmonious, and characterized with great ability, and we have no doubt that much first, assembled for the worthiest objects, the promotion of science Happings, very suitable their increase of general knowledge, and the influence of it will py. —, Daniel Webster.

be to awaken a more general interest in scientific studies and inve t-gations, and to elevate the character of America. The meeting uext year will be held at Cambridge, Massachusetts.—[Pilot.

An invention for cutting stone is in operation in New Haven, which dresses down stone at the rate of a square foot in one or two minutes, and with two attendants only.

American Skill Abroad.—One of Hoe's cylinder levolving presses, says the American Artist, was shipped from this city for Paris, to be used on "La Patrie." Eight, if not ten, of these presses are demanded in Paris for use by the several papers of large circulation. As the French laws prohibit the introduction into France of machinery of foreign manufacture, all but this one will necessarily have to be manufactured in that country. For liberty to build in this country, and introduce into France this one, as a "working model," Col. Hoe obtained special permission of the French government, under the monarchy, las, winter, whilst in Paris; and he has now gone out again, having started in the Cambria on the 18th, to put this press in operation, and arrange for the building of the others in Paris, under the superintendence of one of the young men brought up in his establishment, by whom he is accompanied. The price of these presses is twelve thousand dollars each. Success to the American invention and to the inventor.

Self Lamplichter.—Mr. Alexander Bennet, of New York, exhibited in the late Fair, an invention by which Lamps or Candles may be lighted at any moment of time by a clock or a pull of a cord. If attached to an alarm-clock a light may be produced at any hour. In cases where people wish to rise at a certain unusual time of night, all that is to be done is to set the clock and make the connection of the Lamplighter "all right," and then, when the hour comes round, you have a lamp already lighted at the same time. When not desired to be connected with a clock, it can be attached to a cord terminating in some place lifter a bell-pull, so that it is only necessary to pull the cord to produce a light previous to rising. It is designed, also, to be so attached to the bell-handle of a front door, that pulling the bell instantly makes a light to see by in the hall, or any other part of the house.—[American Artisan.

ROTARY MOULD BOARD PLOUGH.—The Scientific American says, that at the late Fair, the most novel agricultural implement, was a revolving Mould Board Plough, the invention of Mr. Page of Baltimore. The mould was a circular concave conical shield revolving from the point with the sod of earth. This mould board was moveable and could be taken off and put on at pleasure. Whether its complexity will prevent its general introduction or not, remains yet to be seen. Its pranciple is the combination of a revolving apron to move with the earth, and perform the same office as a friction wheel in a shaft box.

A Washing Machine on an Entirely New Principle—Numerous have been the attempts to construct a machine which shall supersede the rubbing by the hand the linen, &c., in the operation of washing; but they have all been objectionable, either from total inefficiency, or from tearing the article. Mr. Jones, of 106, London Wall, is the inventor; and, from what we have seen of the operation of the machine, it appears he has been highly successful. The machine consists of a strong deal trough, closed at one end, and with a semi-circular bottom; in the centre is a division of holes, moving on a centre, by working a handle, which stands upright through the cover. A short distance from the back is also another partition, full of holes; and the clothes properly soaped are placed between. On working the handle backwards and forwards, the hot water is squeezed with great force completely through porcs of the material, and again rushes back, on the withdrawl of the moveable centre. A very short time suffices to cleanse, by this method, the most dirty linen, and without the slightest chance of injury to the fabric. They are extremely casy to work, are calculated greatly to diminish labour with the most satisfactory results, and it will at once be seen that the construction is in every way philosophically correct.—[Mining Journal.

The Atmospheric Churn Outdone!—The following description of a mode of churning practized in Mexico, we think, goes a little ahead of the "atmospherie" wonder!—"Two tin cans are enclosed in a green cow hide; the size to correspond to the quantity of milk. The hide, on drying, will shrink, and adhere to the cans. These cans are partly filled with milk, and placed like saddle-bags, on a hard trotting horse; a person then mounts the horse, and rides seven or eight miles into the city. The motion of the horse effects the separation of the butter from the milk, and the rider has only to pocket the cash for his butter and butter-milk, and wend his way home at his leisune."

BRICK MAKING.—Making bricks of dry pressed clay, we learn by the Cincinatti papers, is extensively practiced near that city. Two machines, driven by steam, turn out 4,700 bricks per hour, ready for the kiln. The establishment only requires twenty-five hands, for feeding the clay, stacking, &c. The bricks are said to be of superior quality and finish; very suitable for fronts and other nice we.

Happiness.—" I say, eir, it is employment that makes people happy. '—"Daniel Wedster.

#### ARRIVAL OF THE BRITANNIA.

We take the following important items of general intelligence from the news by this steamer, which arrived at New York on the 6th inst. It will be seen that there is at present very little prospect of a rise in the price of grain and breadstuffs. This circumstance keeps our own markets in a very dull state :-

Markets.—The grain trade has assumed a rather dull and de-ning tendency. The supplies of home grown, as well as foreign, clining tendency. are fully equal to the demand; and, as buyers feel unwilling to specuare fully equal to the demand; and, as only a feel unwilling to speculate, prices are on the decline. Accordingly, at Mark Lane, on Monday last, wheat fell 2s per quarter, whilst sales for both flour and Indian corn were very limited. The same feeling prevailed in the Liverpool market on the following day, the best American wheat bringing 8s 4d to 8s 5d for white, and 7s 6d to 7s 9d for red: flour sold at 27s to 30s 6d per barrel, according to brand and quality. At the subsequent market, held on the 17th instant, the trade was very languid, and prices were in favor of the buyer.

The intelligence from the Continent, during the week, has been of the most important and alarming character. In the face of the present trouble in Berlin, and with the experience of the French revolution before him, the imbecile and sanguinary despot of Austra has characterised his successes by the most cold-blooded murders in Vienna. The defenceless citizens are shot dead without ceremony; their houses rifled, and even women and children massacred. students of the University, who used almost superhuman exertions in defence of the city, are hunted down like wild beasts, and executed when captured. If anything were wanting to urge the people of Berlin, Frankfort, Breslau, and other places, to revolt, Ferdinand of Austria, has fearfully and fully supplied it. We should not wonder to have intelligence, and that at no distant date, that these acts have raised a flame which neither regal nor imperial despotism will be able to extinguish.

The total number of cases of cholera in London already reported

from its first appearance, has now reached 1,059, of which 513 have proved fatal, and 331 are still under treatment.

In Ireland, poverty and starvation, it is contended by many, will equal the sufferings of the people during the memorable year of 1846. Men, even of rank and title, are said to be subsisting on yellow meal and the garbage of their garden. A baronet in the west of Ireland, who had an income of £2000 a-year, has been so reduced as to accept the miserable office of collector of poor rates. During the last formight, the landlord's shooting season appears to have set in in good carnest, and a long catalogue of these melancholy events are recorded in the columns of the Irish newspapers.

THE CHOLERA .- It has been reported, and we believe correctly, that the Cholera has reached New York. It is said to be of the most virulent kind. A number of deaths have occurred in six hours from the first attack. It has also appeared at New Orleans. have reason to fear, from the peculiar character of our winter, that it will soon visit us.

### AUCTION OF THOROUGH-BRED CATTLE, SHEEP, &c.,

On Yonge Street, near Thornhill.

PICHARD GAPPER, Esq., having leased his Farm for a term of years, has instructed the undersigned to Sell, without reserve, by Public Auction, at his Residence, Yonge Street, opposite Barwick's Tavern. about 14 miles from the City of Toronto, on Tuesday, the 2nd January, 1849, THE WHOLE OF HIS

Live Stock and Farm Implements; comprising

One imported thorough-bred Devonshire Bull, which obtained the first premium of £7 10s. at the Provincial Agricultural Show held at Cobourg; one thorough-bred imported Devonshire Cow, which also obtained the first premium at the same time and place; one three-year-old thorough-bred Devonshire Heifer, calved once; one two-year-old thorough-bred Devon, calved once; four superior half-bred Milch Cows; two four-year-old Steers; Ten thorough-bred Leicester Ewes; five thorough-bred Leicester Lambs; four thorough-bred Leicester Tups; twenty good Ewes and twelve Lambs; not quite thorough-bred; one three-year-old fine Clyde Colt, one two-year-old Clyde Colt, both out of one own sister to the celebrated entire horse, Young Magnum Bonum; one three-year-old Mare, by Cock of the Rock, dam Jesse, a thorough-bred mare; one two-year-old Golt, by Cadmus, from the same mare; one thorough-bred Mare, Jesse, in foal to Young King Alfred; one well-bred Sow; nine store Hogs; one set of brass-mounted single Harness; one set of brass-mounted double Harness; two pair of Harrows; two iron Scotch Ploughs; one lumber Waggon; one lumber Sleigh; together with one imported double iron Cheese Press, and sundry other articles of husbandry not enumerated. After which, will be offered a very superior thorough bred. Durham Bull, bred by Mr. Brown, of Dundas-street; the pedigree will be given at the time of Sale.

Terms.—Under £5 cash; over £5 and under £10, nine months?

credit; over 10, twelve months' credit, on approved joint notes.

Sale to commence at ten o'clock a.m.

WILLIAM B. CREW, Auctioneer, &c.

Township of Markham, 14th December, 1848.

HOME MARKETS. Toronto, Dec. 15. Hamilton, Dec. 14 Montreal, Dec. 12 Flour, per barrel, 0 Wheat, per bushel Barley, per 48lbs. 3 10 0 2 0 0 Oats, per 34lbs. . .0 Peas, per 60lbs. . ī 2 Oatmeal, per barrel 3 6 0 Potatoes, per bushel . 2 6 0 2 1 0 0 2 10 ŏ 10 0 3 Hay, per ton. Beef, per 100lbs. . 0 17 0 5 Pork, per 100lbs. 0 17

# INDEX TO THE AGRICULTURAL DEPARTMENT.

Coffee, Disinfecting Power of		Indian Corn, Profit in Cultivating		Rose Bushes, Transplanting 1	
Curing Provisions	186	Indian Corn Meal and Rye Meal, for Feeding		, Trailing	
Corn-meal Cake, How to make Cold Bed Rooms	149		82	Rules for Farmers' Clubs	50
College, Agricultural		" Meat and Vegetable Teas for		Rusks, How to Make	
" Aricultural, Remarks of a Cor-	<b>=</b> 0	Indian Corn. Time for Planting	99	Salt, as a Manure, to kill Grubs 102, 1	125
respondent on	110	Influence of Forests on the Distribution of Rum and Hail	99	Salt applied to Asparagus Sausages, to make	
Cucumbers, to Raise, 94, Preservation of		Keeping Dried Fruits		Seed Wheat, Liming for, &c	15
Curculio, The Repelled	152	Kicking Horse, to manage	187	Seeds and Thin Sowing 1 Short Horn Discussion	63
Culinary Utensils, Choice of Cultivation, Effects of		Kidney Worms in Swine		Short Horn Discussion	38
Dairy Farming in the Western District		Leaves for Manure	163	Sheep, Salt in the Food of Sheep, Marking	09
Deep Draining		Leprosy, Cure for	85	Sheep, Crucky to in Lower Canada . 1	12
Disease, Symptoms of	126	Liming and Brining Seed Wheat	15	Sheep, House Feeding 1 Smithfield (England) Cattle Show	
Domestic Cookery, Extracts from a New System of	21	Manure, Depth of	99	Soils, their Constituent Elements	8
Dinining, Rule for	17	" Long and Short	147	Soil, Can a Farmer learn to Analize?	74
n Under 27, 39,	40	,, for Fruit Trees	85	Spring Fair of Home Dist. Ag. Society 1	
Dry a Cow, How to	163	Mangel Wortzel and Carrots	111	Straw Cutter, Description of	15
Dysentery, A simple Cure for		How to raise	173	Steening Food	97
Ellerman's Deodorising Liquid		Marls, Application of	102	Strawberry Runners	53
Embellishments of Farm Houses	124	Medicated Milk		Stopping and Thinning, Effects of Subsoil Ploughing	21
Fire ies of		Melons, To Raise	94	Sweet Potatoe, Cultivation of Swapping Horses	89
arms, &c		Metheglin, How to Make	101	Swapping Horses	01
nce Companies ading		Mowing Machine, Ketchum's Model Farm, Description of	28	Systematic Agriculture, Sketch of	
rork State 25, 130, 148,	161	Model Farm and School for Agriculture,	1	Tan Bark for Manure 1 Tares or Vetches	50
Farmers' Clubs, Rules for	50	Scheme for		Tail Sickness	63
Farm Accounts, Keeping Farmers, Importance of Education to .		Moths, Preventative against	169	Tenant Right Agitation in England .	17
Fattening Sheep		Model Farms in Ireland Mustard, Cultivation of Murrian in Cattle	19	Thinning Plants	85
Feline Electricity	9	Murrian in Cattle	89	Top Dressing for Grass Lands 1	75
February, Hints for		Native Cattle, Discussion relative to .	15	Tobacco Smoking	45
Flax Crop 101, Flax Growing in Ireland	113	New York State Fair 130, 148,	161	Transplanting Ferns	61
Fowls, Feeding of	61	Newspapers, Opposition of, to "Agricul- turist"	26	" and Management of Fruit Trees74, 1 Tripe, To make	16
Frightening Foxes		New Law for the Promotion of Agricul-	~0	Tussae Grass	53
Fruit Trees, Manure for Fruit Trees in Clusters		ture	41	Turnip Beetle, to destroy 53, 85, 1 Turnip, Culture of	26
Fruit Trees, Transplanting Frost, To secure Trees from		"Newcastle Farmer," Notice of the . Nest Eggs	100	Turnip, Culture of	97 65
Frost, To secure Trees from	97	Night Soil, How to render inodorous	114	UnderDraining. Prf. Morton's Lect. 27, 39,	
Garden, Deep Tillage of		Old Seeds. To promote Vegetation of	1	University, Establishing Chair of Ag. in	62
	4 745				07
		Onions, Enormous Weight of	171	Use your Judgment	31
" Culture	86 94	Partnership, Notice of Dissolution of, be-	171	Vegetable Manures 1	09
" Culture	86 94 125	Partnership, Notice of Dissolution of, be- tween Proprietors of "Agriculturist"	171	Vegetable Manures I Vinegar, inquiry as to making I	09 87
,, Culture	86 94 125 109	Partnership, Notice of Dissolution of, be- tween Proprietors of "Agriculturist" Peach Trees in Canada Borer, hot Lye a remedy for	171 134 100 85	Vegetable Manures 1 Vinegar, inquiry as to making - 1 Waggons, Anti-Friction Compound for Water for Stock	09 87 37 4
Gardening Gape in Chickens, Curc for 97, Gases of Manure Glass Milk Pans Good Seed, Importance of	86 94 125 109 101 175	Partnership, Notice of Dissolution of, between Proprietors of "Agriculturist" Peach Trees in Canada Borer, hot Lye a remedy for . Phosphorate of Lime	171 134 100 85 150	Vegetable Manures Vinegar, inquiry as to making Waggons, Anti-Friction Compound for Water for Stock Water, Advantage of, in Barn Yards 1	09 87 37 4 47
Gardening Gape in Chickens, Curc for 97, Gases of Manure Glass Milk Pans Good Seed, Importance of Gooseberry Cuttings, Fall Planting of	86 94 125 109 101 175 151	Partnership, Notice of Dissolution of, between Proprietors of "Agriculturist" Peach Trees in Canada Borer, hot Lye a remedy for . Phosphorate of Lime Pea Crop, whe	171 134 100 85 150 185	Vegetable Manures 1 Vinegar, inquiry as to making - 1 Waggons, Anti-Friction Compound for Water for Stock	09 87 37 4 47
Gulture Gape in Chickens, Curc for 97, Gases of Manure Glass Milk Pans Good Seed, Importance of Gooseberry Cuttings, Fall Planting of Good Farming, What constitutes	86 94 125 109 101 175 151 85	Partnership, Notice of Dissolution of, between Proprietors of "Agriculturist" Peach Trees in Canada , Borer, hot Lye a remedy for Phosphorate of Lime Pea Crop, 1 he Pigs, Raising and Feeding Planting	171 134 100 85 150 185 3 106	Vegetable Manures Vinegar, inquiry as to making Waggons, Anti-Friction Compound for Water for Stock Water, Advantage of, in Barn Yards I Weevil in Wheat Weather, notice of Wheat, Spring Treatment for	09 87 37 4 47 34 27 51
Gardening Gape in Chickens, Cure for 97, Gases of Manure Glass Milk Pans Good Seed, Importance of Gooseberry Cuttings, Fall Planting of Good Farming, What constitutes Good Farming, Secret of Good and Bad Luck	86 94 125 109 101 175 151 85 37 37	Partnership, Notice of Dissolution of, between Proprietors of "Agriculturist" Peach Trees in Canada , Borer, hot Lye a remedy for . Phosphorate of Lime Pea Crop, the Pigs. Raising and Feeding Planting Plank Roads	171 134 100 85 150 185 3 106 150	Vegetable Manures Vinegar, inquiry as to making Waggons, Anti-Friction Compound for Water for Stock Water, Advantage of, in Barn Yards I Weevil in Wheat Weather, notice of Wheat, Spring Treatment for Wheat, Points in the Culture of	09 87 37 47 34 27 51 86
Gulture Gape in Chickens, Cure for 97, Gases of Manure Glass Milk Pans Good Seed, Importance of Gooseberry Cuttings, Fall Planting of Good Farming, What constitutes Good Farming, Secret of Good and Bad Luck Gold Medal for the best Farm in H. D.	\$6 94 125 109 101 175 151 85 37 37	Partnership, Notice of Dissolution of, between Proprietors of "Agriculturist" Peach Trees in Canada Borer, hot Lye a remedy for Phosphorate of Lime Pea Crop, the Pigs, Raising and Feeding Planting Plant Roads Plum Cakes, How to Make	171 134 100 85 150 185 3 106 150 34	Vegetable Manures Vinegar, inquiry as to making Waggons, Anti-Friction Compound for Water for Stock Water, Advantage of, in Barn Yards I Weevil in Wheat Weather, notice of Wheat, Spring Treatment for Wheat, Points in the Culture of Wheat, Improvement in Grinding Wheat, Culture of	09 87 37 47 34 27 51 86 01
Gardening Gape in Chickens, Cure for 97, Gases of Manure Glass Milk Pans Good Seed, Importance of Gooseberry Cuttings, Fall Planting of Good Farming, What constitutes Good Farming, Secret of Good and Bad Luck Gold Medal for the best Farm in H. D. Grafting, Directions for Grafting Currants	\$6 94 125 109 101 175 151 85 37 17 77 85	Partnership, Notice of Dissolution of, between Proprietors of "Agriculturist" Peach Trees in Canada  Borer, hot Lye a remedy for Phosphorate of Lime Pea Crop, the Pigs, Raising and Feeding Planting Planting Plant Roads Plum Cakes, How to Make Pleuro—Pneumonia—Disease in Cattle Plaster, Cheap, for Coarse Finish	171 134 100 85 150 185 3 106 150 34 53	Vegetable Manures Vinegar, inquiry as to making Waggons, Anti-Friction Compound for Water for Stock Water, Advantage of, in Barn Yards I Weevil in Wheat Weather, notice of Wheat, Spring Treatment for Wheat, Points in the Culture of Wheat, Improvement in Grinding Wheat, Culture of	09 87 37 47 34 27 51 86 01
Gardening Gape in Chickens, Cure for 97, Gases of Manure Glass Milk Pans Good Seed, Importance of Gooseberry Cuttings, Fall Planting of Good Farming, What constitutes Good Farming, Secret of Good and Bad Luck Gold Medul for the best Farm in H. D. Grafting, Directions for Grafting Currants Grass Seeds, Remarks on Sowing	\$6 94 125 109 101 175 151 85 37 17 77 85	Partnership, Notice of Dissolution of, between Proprietors of "Agriculturist" Peach Trees in Canada  Borer, hot Lye a remedy for Phosphorate of Lime Pea Crop, the Pigs, Raising and Feeding Planting Planting Plant Roads Plum Cakes, How to Make Pleuro—Pneumonia—Disease in Cattle Plaster, Cheap, for Coarse Finish	171 134 100 85 150 185 3 106 150 34 53	Vegetable Manures Vinegar, inquiry as to making Waggons, Anti-Friction Compound for Water for Stock Water, Advantage of, in Barn Yards I Weevil in Wheat Weather, notice of Wheat, Spring Treatment for Wheat, Points in the Culture of Wheat, Improvement in Grinding Wheat, Culture of	09 87 37 47 34 27 51 86 01
Gulture Gape in Chickens, Cure for 97, Gases of Manure Glass Milk Pans Good Seed, Importance of Gooseberry Cuttings, Fall Planting of Good Farming, What constitutes Good Farming, Secret of Good and Bad Luck Gold Medal for the best Farm in H. D. Grafting, Directions for Grafting Currants Grass Seeds, Remarks on Sowing Grapes, To prevent Rot in	\$6 94 125 109 101 175 151 85 37 77 77 85 126 164	Partnership. Notice of Dissolution of. between Proprietors of "Agriculturist" Peach Trees in Canada Borer, hot Lye a remedy for . Phosphorate of Lime Pea Crop, the Pigs. Raising and Feeding Planting Plant Roads Plum Cakes, How to Make Pleuro—Pneumoniæ—Disease in Cattle Plaster, Cheap, for Coarse Finish Plum. Cultivation of Diseases of Wild	171 134 100 85 150 185 3 106 150 34 53 114 164 164	Vegetable Manures Vinegar, inquiry as to making Waggons, Anti-Friction Compound for Water for Stock Water, Advantage of, in Barn Yards I Weevil in Wheat Weather, notice of Wheat, Spring Treatment for Wheat, Points in the Culture of Wheat, Improvement in Grinding Wheat, Culture of Wheat, Culture of Wheat, Culture of Wheat and Corn, What do they eat? I White Blackberry, The White Blackberry, The Whitly Township, Challenge of, for	09 87 37 47 34 27 51 86 01 46 57 61
Gardening Gardening Gape in Chickens, Curc for 97, Gases of Manure Glass Milk Pans Good Seed, Importance of Gooseberry Cuttings, Fall Planting of Good Farming, What constitutes Good Farming, Secret of Good and Bad Luck Gold Medal for the best Farm in H. D. Grafting, Directions for Grafting Currants Grass Seeds, Remarks on Sowing Grapes, To prevent Rot in Guano, Destruction to Wireworm	\$6 94 125 109 101 175 151 85 37 17 77 85 126 164 41 121	Partnership, Notice of Dissolution of, between Proprietors of "Agriculturist" Peach Trees in Canada  "Borer, hot Lye a remedy for Phosphorate of Lime Pea Crop, the Pigs, Raising and Feeding Planting Planting Plant Roads Plum Cakes, How to Make Pleuro—Pneumoniæ—Disease in Cattle Plaster, Cheap, for Coarse Finish Plum, Cultivation of "Diseases of Wild Ploughing Match between Canada and the State of New York	171 134 100 85 150 185 3 106 150 34 53 114 164 164	Vegetable Manures Vinegar, inquiry as to making Waggons, Anti-Friction Compound for Water for Stock Water, Advantage of, in Barn Yards I Weevil in Wheat Weather, notice of Wheat, Spring Treatment for Wheat, Points in the Culture of Wheat, Improvement in Grinding Wheat, Culture of Wheat, Culture of Wheat, Culture of Wheat and Corn, What do they eat? I White Blackberry, The White Blackberry, The Whitly Township, Challenge of, for	09 87 37 47 34 27 51 86 01 46 57 61
Gardening Gardening Gape in Chickens, Curc for 97, Gases of Manure Glass Milk Pans Good Seed, Importance of Gooseberry Cuttings, Fall Planting of Good Farming, What constitutes Good Farming, Secret of Good and Bad Luck Gold Medal for the best Farm in H. D. Grafting, Directions for Grafting Currants Grass Seeds, Remarks on Sowing Grapes, To prevent Rot in Guano	\$6 94 125 109 101 175 151 85 37 17 77 85 126 164 41 121	Partnership. Notice of Dissolution of. between Proprietors of "Agriculturist" Peach Trees in Canada Borer, hot Lye a remedy for . Phosphorate of Lime Pea Crop, the Pigs. Raising and Feeding Planting Plant Roads Plum Cakes, How to Make Pleuro—Pneumoniæ—Disease in Cattle Plaster, Cheap, for Coarse Finish Plum, Cultivation of Diseases of Wild Ploughing Match between Canada and the State of New York Potatoes, To obtain New Variety of	171 134 100 85 150 185 3 106 150 34 53 114 164 172 17	Vegetable Manures Vinegar, inquiry as to making Vaggons, Anti-Friction Compound for Water for Stock Water, Advantage of, in Barn Yards I Weevil in Wheat Weather, notice of Wheat, Spring Treatment for Wheat, Points in the Culture of Wheat, Improvement in Grinding Wheat, Culture of Wheat and Corn, What do they eat? I White Water of White Blackberry, The Whithy Township, Challenge of, for Ploughing Wireworm - 114, 137, 159, I	09 87 37 47 34 27 51 86 01 46 57 61 51
Gardening Gardening Gape in Chickens, Cure for 97, Gases of Manure Glass Milk Pans Good Seed, Importance of Gooseberry Cuttings, Fall Planting of Good Farming, What constitutes Good Farming, Secret of Good and Bad Luck Gold Medal for the best Farm in H. D. Grafting, Directions for Grafting Currants Grass Seeds, Remarks on Sowing Grapes, To prevent Rot in Guano Guano, Destruction to Wireworm Gypsum, How to use Harvest, State of in Great Britain and	86 94 125 109 101 175 151 85 37 77 77 65 126 41 121 86	Partnership. Notice of Dissolution of. between Proprietors of "Agriculturist" Peach Trees in Canada Borer, hot Lye a remedy for . Phosphorate of Lime Pea Crop, the Pigs. Raising and Feeding Planting Plant Roads Plum Cakes, How to Make Pleuro—Pneumoniæ—Disease in Cattle Plaster, Cheap, for Coarse Finish Plum, Cultivation of Diseases of Wild Ploughing Match between Canada and the State of New York Potatoes, To obtain New Variety of	171 134 100 85 150 185 3 106 150 34 53 114 164 172 17	Vegetable Manures Vinegar, inquiry as to making Vaggons, Anti-Friction Compound for Water for Stock Water, Advantage of, in Barn Yards I Weather, notice of Wheat, Spring Treatment for Wheat, Spring Treatment for Wheat, Foints in the Culture of Wheat, Improvement in Grinding Wheat, Culture of Wheat, Culture of Wheat and Corn, What do they eat? I White Blackberry, The White Blackberry, The Whithy Township, Challenge of, for Ploughing Wireworm Vireworm Vireworm Vireworm Vireworm Vireworkilled Wheat Wintering Stock, Best Manner of	09 87 37 47 34 27 51 86 01 46 57 61 51 76 88 63
Gulture Gape in Chickens, Cure for 97, Gases of Manure Glass Milk Pans Good Seed, Importance of Gooseberry Cuttings, Fall Planting of Good Farming, What constitutes Good Farming, Secret of Good and Bad Luck Gold Medal for the best Farm in H. D. Grafting, Directions for Grafting Currants Grass Seeds, Remarks on Sowing Grapes, To prevent Rot in Guano Guano, Destruction to Wireworm Gypsum, How to use Harvest, State of in Great Britain and Ireland	86 94 125 109 101 175 151 85 37 77 85 126 41 121 86	Partnership, Notice of Dissolution of, between Proprietors of "Agriculturist" Peach Trees in Canada  "Borer, hot Lye a remedy for Phosphorate of Lime Pea Crop, the Pigs, Raising and Feeding Planting Pl	171 134 100 85 150 185 3 106 150 150 34 53 114 164 172 177 75 171 98	Vegetable Manures Vinegar, inquiry as to making Waggons, Anti-Friction Compound for Water for Stock Water, Advantage of, in Barn Yards I Weevil in Wheat Weather, notice of Wheat, Spring Treatment for Wheat, Points in the Culture of Wheat, Improvement in Grinding Wheat, Culture of Wheat and Corn, What do they eat? I White Blackberry, The White Blackberry, The Whithy Township, Challenge of, for Ploughing Wireworm 114, 137, 159, I Winter-killed Wheat Wintering Stock, Best Manner of Wool Trade in Australia	09 87 37 47 34 27 51 86 01 46 57 61 51 76 88 63
Gardening Gardening Gape in Chickens, Curc for 97, Gases of Manure Glass Milk Pans Good Seed, Importance of Gooseberry Cuttings, Fall Planting of Good Farming, What constitutes Good Farming, Secret of Good and Bad Luck Gold Medal for the best Farm in H. D. Grafting, Directions for Grafting Currants Grass Seeds, Remarks on Sowing Grapes, To prevent Rot in Guano Guano, Destruction to Wireworm Gypsum, How to use Harvest, State of in Great Britain and Ireland Hampton Court Vine Hawthorn	86 94 125 109 101 175 151 85 37 37 77 77 85 126 41 121 86 170 177 151	Partnership, Notice of Dissolution of, between Proprietors of "Agriculturist" Peach Trees in Canada  "Borer, hot Lye a remedy for Phosphorate of Lime Pea Crop, the Pigs, Raising and Feeding Planting Pl	171 134 100 85 150 185 3 106 150 150 34 53 114 164 172 177 75 171 98	Vegetable Manures Vinegar, inquiry as to making Vaggons, Anti-Friction Compound for Water for Stock Water, Advantage of, in Barn Yards I Weather, notice of Wheat, Spring Treatment for Wheat, Spring Treatment for Wheat, Foints in the Culture of Wheat, Improvement in Grinding Wheat, Culture of Wheat, Culture of Wheat and Corn, What do they eat? I Whitewash for Wood White Blackberry, The Whithy Township, Challenge of, for Ploughing Wireworm Vireworm Vireword Vireworm Vireworm Vireworm Vireworm Vireworm Vireworm Vireword Vireworm Vi	09 87 37 47 34 27 51 86 61 57 61 51 76 88 63 17 87
Gulture Gardening Gape in Chickens, Cure for 97, Gases of Manure Glass Milk Pans Good Seed, Importance of Gooseberry Cuttings, Fall Planting of Good Farming, What constitutes Good Farming, Secret of Good and Bad Luck Gold Medal for the best Farm in H. D. Grafting, Directions for Grafting Currants Grass Seeds, Remarks on Sowing Grapes, To prevent Rot in Guano, Destruction to Wireworm Gypsum, How to use Harvest, State of in Great Britain and Ireland Hampton Court Vine Hams, Preserving of	\$6 94 125 109 101 175 151 85 37 77 85 126 41 121 121 170 177 177 177 177 177 177 177 177 17	Partnership, Notice of Dissolution of. between Proprietors of "Agriculturist" Peach Trees in Canada Borer, hot Lye a remedy for . Phosphorate of Lime Pea Crop, the Pigs. Raising and Feeding Planting Plank Roads Plum Cakes, How to Make Pleuro—Pneumoniæ—Disease in Cattle Plaster, Cheap, for Coarse Finish Plum, Cultivation of Diseases of Wild Ploughing Match between Canada and the State of New York Potatoes, To obtain New Variety of Poultry, Age of Potato Diseases S8, 112,	171 134 100 85 150 185 3 106 150 34 53 114 164 172 177 75 171 171 171 171 171 171 171 171	Vegetable Manures Vinegar, inquiry as to making Waggons, Anti-Friction Compound for Water for Stock Water, Advantage of, in Barn Yards I Weather, notice of Wheat, Spring Treatment for Wheat, Spring Treatment for Wheat, Foints in the Culture of Wheat, Improvement in Grinding Wheat, Culture of Wheat, Culture of Wheat and Corn, What do they eat? I White Blackberry, The White Blackberry, The White Blackberry, The White Township, Challenge of, for Ploughing Wireworm Wireworm Wireworm Winter-killed Wheat Wintering Stock, Best Manner of Wool Trade in Australia Worms and Grnbs, To Destroy Wood, Buying Wool, Directions for Sacking	09 87 37 47 34 27 51 86 01 46 57 69 88 63 17 85 99
Gardening Gardening Gape in Chickens, Curc for 97, Gases of Manure Glass Milk Pans Good Seed, Importance of Gooseberry Cuttings, Fall Planting of Good Farming, What constitutes Good Farming, Secret of Good and Bad Luck Gold Medal for the best Farm in H. D. Grafting, Directions for Grafting Currants Grass Seeds, Remarks on Sowing Grapes, To prevent Rot in Guano Guano, Destruction to Wireworm Gypsum, How to use Harvest, State of in Great Britain and Ireland Hampton Court Vine Hawthorn Hams, Preserving of , Curing Hay Seed	86 94 125 109 101 175 151 85 37 77 85 126 164 41 121 86 170 177 151 101 121 124 37	Partnership, Notice of Dissolution of, between Proprietors of "Agriculturist" Peach Trees in Canada Borer, hot Lye a remedy for . Phosphorate of Lime Pea Crop, the Pigs, Raising and Feeding Planting Planting	171 134 100 85 150 185 3 106 53 114 164 172 177 98 145 1181 163	Vegetable Manures Vinegar, inquiry as to making Vaggons, Anti-Friction Compound for Water for Stock Water, Advantage of, in Barn Yards I Weevil in Wheat Weather, notice of Wheat, Spring Treatment for Wheat, Spring Treatment for Wheat, Foints in the Culture of Wheat, Improvement in Grinding Wheat, Culture of Wheat, Culture of Wheat and Corn, What do they eat? White Blackberry, The White Blackberry, The White Township, Challenge of, for Ploughing Wireworm 114, 137, 159, I Wireworm 114, 137, 159, I Winter-killed Wheat Wintering Stock, Best Manner of Wool Trade in Australia Worms and Grnbs, To Destroy Wood, Buying Wool, Directions for Sacking "Yankee Ploughs don't suit all"	09 87 37 47 34 47 51 86 01 46 57 69 86 63 17 85 99 70
Gardening Gardening Gape in Chickens, Curc for 97, Gases of Manure Glass Milk Pans Good Seed, Importance of Gooseberry Cuttings, Fall Planting of Good Farming, What constitutes Good Farming, Secret of Good and Bad Luck Gold Medal for the best Farm in H. D. Grafting, Directions for Grafting Currants Grass Seeds, Remarks on Sowing Grapes, To prevent Rot in Guano Guano, Destruction to Wireworm Gypsum, How to use Harvest, State of in Great Britain and Ireland Hampton Court Vine Hams, Preserving of "Curing Hay Seed Hay Seed Hay and Straw Cutter	86 94 125 109 101 1175 151 85 37 77 85 126 41 121 86 170 177 151 101 124 37	Partnership, Notice of Dissolution of, between Proprietors of "Agriculturist" Peach Trees in Canada  "Borer, hot Lye a remedy for Phosphorate of Lime Pea Crop, the Pigs, Raising and Feeding Planting Plant Roads Plum Cakes, How to Make Pleuro—Pneumoniæ—Disease in Cattle Plaster, Cheap, for Coarse Finish Plum, Cultivation of "Diseases of Wild Ploughing Match between Canada and the State of New York Potatoes, To obtain New Variety of Potato Diseases S8, 112, Potatoes, to prevent Rot in Potatoes, wild Poisoning from Seed Wheat steeped Provincial Agricultural Association, Proceedings of 40, 89,	171 134 100 85 150 185 3 106 150 150 150 14 164 172 17 75 181 181 163 103	Vegetable Manures Vinegar, inquiry as to making Vaggons, Anti-Friction Compound for Water for Stock Water, Advantage of, in Barn Yards I Weevil in Wheat Weather, notice of Wheat, Spring Treatment for Wheat, Points in the Culture of Wheat, Improvement in Grinding Wheat, Culture of Wheat, Culture of Wheat of Corn, What do they eat? I White Blackberry, The White Blackberry, The Whithy Township, Challenge of, for Ploughing Wireworm 114, 137, 159, I Winter-killed Wheat Wintering Stock, Best Manner of Wool Trade in Australia Worms and Grnbs, To Destroy Wood, Directions for Sacking "Yankee Ploughs don't suit all" York Township Club, Meeting of	09 87 34 47 51 86 01 46 57 69 88 63 17 85 70 64
Gradening Gape in Chickens, Cure for 97, Gases of Manure Glass Milk Pans Good Seed, Importance of Gooseberry Cuttings, Fall Planting of Good Farming, What constitutes Good Farming, Secret of Good and Bad Luck Good and Bad Luck Gold Medal for the best Farm in H. D. Grafting, Directions for Grafting Currants Grass Seeds, Remarks on Sowing Grapes, To prevent Rot in Guano Guano, Destruction to Wireworm Gypsum, How to use Harvest, State of in Great Britain and Ireland Hampton Court Vine Hawthorn Hams, Preserving of "Curing Hay Seed Hay and Straw Cutter Harland Mr., of Guelph, notice of his Pigs	86 94 125 109 101 175 151 85 37 77 77 85 126 41 121 86 170 171 101 124 37 25 25	Partnership, Notice of Dissolution of, between Proprietors of "Agriculturist" Peach Trees in Canada Borer, hot Lye a remedy for . Phosphorate of Lime Pea Crop, the Pigs, Raising and Feeding Planting Planting	171 134 100 85 150 185 3 106 150 150 150 14 164 172 17 75 181 181 163 103	Vegetable Manures Vinegar, inquiry as to making Vaggons, Anti-Friction Compound for Water for Stock Water, Advantage of, in Barn Yards I Weevil in Wheat Weather, notice of Wheat, Spring Treatment for Wheat, Spring Treatment for Wheat, Foints in the Culture of Wheat, Improvement in Grinding Wheat, Culture of Wheat, Culture of Wheat and Corn, What do they eat? White Blackberry, The White Blackberry, The White Township, Challenge of, for Ploughing Wireworm 114, 137, 159, I Wireworm 114, 137, 159, I Winter-killed Wheat Wintering Stock, Best Manner of Wool Trade in Australia Worms and Grnbs, To Destroy Wood, Buying Wool, Directions for Sacking "Yankee Ploughs don't suit all"	09 87 34 47 51 86 01 46 57 69 88 63 17 85 70 64
Gardening Gardening Gape in Chickens, Curc for 97, Gases of Manure Glass Milk Pans Good Seed, Importance of Gooseberry Cuttings, Fall Planting of Good Farming, What constitutes Good Farming, Secret of Good and Bad Luck Good and Bad Luck Gold Medal for the best Farm in H. D. Grafting, Directions for Grafting Currants Grass Seeds, Remarks on Sowing Grapes, To prevent Rot in Guano Guano, Destruction to Wireworm Gysum, How to use Harvest, State of in Great Britain and Ireland Hampton Court Vine Hawthorn Hams, Preserving of , Curing Hay Seed Hay and Straw Cutter Harland Mr., of Guelph, notice of his Pigs Heaves, Curc for 135, Hemp and Flax Growing	86 94 125 109 101 175 151 151 185 37 77 77 77 77 126 164 41 121 121 101 124 125 126 170 127 151 151 109 109 109 109 109 109 109 109 109 10	Partnership, Notice of Dissolution of, between Proprietors of "Agriculturist" Peach Trees in Canada Borer, hot Lye a remedy for . Phosphorate of Lime Pea Crop, the Pigs, Raising and Feeding Planting Planting	171 134 100 85 150 185 106 150 34 164 164 172 177 75 145 181 181 181 163 102 136 136	Vegetable Manures Vinegar, inquiry as to making Vaggons, Anti-Friction Compound for Water for Stock Water, Advantage of, in Barn Yards I Weevil in Wheat Weather, notice of Wheat, Spring Treatment for Wheat, Points in the Culture of Wheat, Improvement in Grinding Wheat, Culture of Wheat, Culture of Wheat of Corn, What do they eat? I White Blackberry, The White Blackberry, The Whithy Township, Challenge of, for Ploughing Wireworm 114, 137, 159, I Winter-killed Wheat Wintering Stock, Best Manner of Wool Trade in Australia Worms and Grnbs, To Destroy Wood, Directions for Sacking "Yankee Ploughs don't suit all" York Township Club, Meeting of	09 87 34 47 51 86 01 46 57 69 88 63 17 85 70 64
Gulture Gape in Chickens, Cure for 97, Gases of Manure Glass Milk Pans Good Seed, Importance of Gooseberry Cuttings, Fall Planting of Good Farming, What constitutes Good Farming, Secret of Good and Bad Luck Gold Medal for the best Farm in H. D. Grafting, Directions for Grafting, Directions for Grafting Currants Grass Seeds, Remarks on Sowing Grapes, To prevent Rot in Guano, Destruction to Wireworm Gypsum, How to use Harvest, State of in Great Britain and Ireland Hampton Court Vine Hams, Preserving of , Curing Hay Seed Hay Seed Hay Seed Hay Seed Hay and Straw Cutter Harland Mr., of Guelph, notice of his Pigs Heaves, Cure for 135, Hemp and Flax Growing Hen Manure, Value of	86 94 125 109 101 175 151 151 126 164 121 86 170 177 184 37 170 1151 1101 124 37 47 47 47 47 47 47 47 47 47 47 47 47 47	Partnership. Notice of Dissolution of. between Proprietors of "Agriculturist" Peach Trees in Canada Borer, hot Lye a remedy for Phosphorate of Lime Pea Crop, the Pigs. Raising and Feeding Planting Plank Roads Plum Cakes, How to Make Pleuro—Pneumoniæ—Disease in Cattle Plaster, Cheap, for Coarse Finish Plum. Cultivation of Diseases of Wild Ploughing Match between Canada and the State of New York Potatoes, To obtain New Variety of Potatoes, To obtain New Variety of Potatoes, To optain New Variety of Potatoes, to prevent Rot in Potatoes should not be mixed Potatoes, Wild Poisoning from Seed Wheat steeped Provincial Agricultural Association, Proceedings of 40, 89, Exhibition Rules of Press, influence of, on Ag. Improvement Preservation of animal & veg. substances	171 134 100 85 150 166 150 3 106 153 114 164 172 177 171 98 185 1181 163 1183 1183 1183 1183 1183 1183	Vegetable Manures Vinegar, inquiry as to making Vinegar, inquiry as to making Waggons, Anti-Friction Compound for Water for Stock Water, Advantage of, in Barn Yards I Weevil in Wheat Weather, notice of Wheat, Spring Treatment for Wheat, Spring Treatment for Wheat, Points in the Culture of Wheat, Improvement in Grinding Wheat, Culture of Wheat, Culture of White Blackberry, The White Blackberry, The White Blackberry, The Whity Township, Challenge of, for Ploughing Vireworm 114, 137, 159, I Winter-killed Wheat Wintering Stock, Best Manner of Wool Trade in Australia Worms and Grnbs, To Destroy Wood, Buying Wool, Directions for Sacking "Yankee Ploughs don't suit all" York Township Club, Meeting of Young Trees, to promote the Growth of Index to Illustrations.	09 87 37 47 34 27 51 86 10 146 57 169 863 17 85 70 64 85
Gulture Gardening Gardening Gape in Chickens, Cure for 97, Gases of Manure Glass Milk Pans Good Seed, Importance of Gooseberry Cuttings, Fall Planting of Good Farming, What constitutes Good Farming, Secret of Good and Bad Luck Good and Bad Luck Good and Bad Luck Grafting, Directions for Grafting Currants Grass Seeds, Remarks on Sowing Grapes, To prevent Rot in Guano Guano, Destruction to Wireworm Gypsum, How to use Harvest, State of in Great Britain and Ireland Hampton Court Vine Hawthorn Hams, Preserving of "Curing Hay Seed Hay and Straw Cutter Harland Mr., of Guelph, notice of his Pigs Heaves, Cure for 135, Hemp and Flax Growing Hen Manure, Value of Hessian Fly 65. 88	86 94 125 109 101 175 151 151 164 41 121 86 170 177 151 1101 124 37 25 65 77 41	Partnership, Notice of Dissolution of, between Proprietors of "Agriculturist" Peach Trees in Canada Borer, hot Lye a remedy for . Phosphorate of Lime Pea Crop, the Pigs, Raising and Feeding Planting Planting	171 134 100 85 150 185 3 106 150 34 164 164 172 177 75 181 181 181 163 163 135 135 136 135 136	Vegetable Manures Vinegar, inquiry as to making Vinegar, inquiry as to making Waggons, Anti-Friction Compound for Water for Stock Water, Advantage of, in Barn Yards I Weevil in Wheat Weather, notice of Wheat, Spring Treatment for Wheat, Spring Treatment for Wheat, Points in the Culture of Wheat, Improvement in Grinding Wheat, Culture of Wheat of Corn, What do they eat? I White Blackberry, The White Blackberry, The Whithy Township, Challenge of, for Ploughing Wireworm 114, 137, 159, I Winter-killed Wheat Wintering Stock, Best Manner of Wool Trade in Australia Worms and Grnbs, To Destroy Wood, Directions for Sacking "Yankee Ploughs don't suit all" York Township Club, Meeting of Young Trees, to promote the Growth of  Index to Illustrations, Ketchum's Mowing Machine	09 87 37 47 34 27 51 86 01 46 57 69 86 317 85 70 64 85
Gardening Gardening Gape in Chickens, Curc for 97, Gases of Manure Glass Milk Pans Good Seed, Importance of Gooseberry Cuttings, Fall Planting of Gooseberry Cuttings, Fall Planting of Good Farming, What constitutes Good Farming, Secret of Good and Bad Luck Good and Bad Luck Gold Medal for the best Farm in H. D. Grafting, Directions for Grafting Currants Grass Seeds, Remarks on Sowing Grapes, To prevent Rot in Guano Guano, Destruction to Wireworm Gypsum, How to use Harvest, State of in Great Britain and Ireland Hampton Court Vine Hawthorn Hams, Preserving of ,, Curing Hay Seed Hay and Straw Cutter Harland Mr., of Guelph, notice of his Pigs Heaves, Cure for 135, Hemp and Flax Growing Hen Manure, Value of Hessian Fly 65, 88, Hints for February , to Farmers	86 94 125 109 101 175 151 151 185 37 77 85 126 41 121 86 177 151 101 124 37 25 65 77 41 134 143 144 154 154 154 154 154 154 155 154 154	Partnership, Notice of Dissolution of, between Proprietors of "Agriculturist" Peach Trees in Canada Borer, hot Lye a remedy for . Phosphorate of Lime Pea Crop, the Pigs, Raising and Feeding Planting Planting	171 134 100 85 150 185 3 106 150 334 164 164 172 177 75 181 181 181 181 181 181 183 183 183 183	Vegetable Manures Vinegar, inquiry as to making Vaggons, Anti-Friction Compound for Water for Stock Water, Advantage of, in Barn Yards I Weather, notice of Wheat, Spring Treatment for Wheat, Spring Treatment for Wheat, Foints in the Culture of Wheat, Improvement in Grinding I Wheat, Culture of Wheat, Culture of Wheat, Culture of White Blackberry, The White Blackberry, The White White Township, Challenge of, for Ploughing Wireworm Viner-killed Wheat Wintering Stock, Best Manner of Wool Trade in Australia Worms and Grnbs, To Destroy Wood, Buying Wool, Directions for Sacking "Yankee Ploughs don't suit all" York Township Club, Meeting of Young Trees, to promote the Growth of Index to Illustrations.  Ketchum's Mowing Machine Straw Cutter (Canadian) Hay and Straw Cutter (American)	09 87 37 47 34 327 51 86 01 65 69 88 63 17 85 76 85 13
"Culture Gape in Chickens, Cure for 97, Gases of Manure Glass Milk Pans Good Seed, Importance of Gooseberry Cuttings, Fall Planting of Good Farming, What constitutes Good Farming, Secret of Good and Bad Luck Good and Bad Luck Gold Medal for the best Farm in H. D. Grafting, Directions for Grafting Currants Grass Seeds, Remarks on Sowing Grapes, To prevent Rot in Guano Guano, Destruction to Wireworm Gypsum, How to use Harvest, State of in Great Britain and Ireland Hampton Court Vine Hawthorn Hams, Preserving of "Curing Hay Seed Hay and Straw Cutter Harland Mr. of Guelph, notice of his Pigs Heaves, Cure for 135, Hemp and Flax Growing Hen Manure, Value of Hessian Fly 65, 88, Hints for February "to Fatmers "Seasonable 65.	86 94 125 109 101 175 151 185 37 77 85 126 41 121 121 124 37 25 65 77 43 14 13 14 37	Partnership, Notice of Dissolution of, between Proprietors of "Agriculturist" Peach Trees in Canada  "Borer, hot Lye a remedy for Phosphorate of Lime Pea Crop, the Pigs, Raising and Feeding Planting Plant Roads Plum Cakes, How to Make Pleuro—Pneumonia—Disease in Cattle Plaster, Cheap, for Coarse Finish Plum, Cultivation of "Diseases of Wild Ploughing Match between Canada and the State of New York Potatoes, To obtain New Variety of Potato Diseases S8, 112, Potatoes, to prevent Rot in Potatoes, Wild Poisoning from Seed Wheat steeped Provincial Agricultural Association, Proceedings of 40, 89, "Exhibition "Rules of Press, influence of, on Ag. Improvement Preservation of animal & veg. substances Prize Essays Pumpkins and Squashes, Storing Queries to be answered	171 134 100 85 150 150 3 106 150 3 114 164 172 77 75 171 98 115 163 115 115 115 115 115 115 115 115 115 11	Vegetable Manures Vinegar, inquiry as to making Vinegar, inquiry as to making Waggons, Anti-Friction Compound for Water for Stock Water, Advantage of, in Barn Yards I Weevil in Wheat Weather, notice of Wheat, Spring Treatment for Wheat, Spring Treatment for Wheat, Points in the Culture of Wheat, Improvement in Grinding I Wheat, Culture of Wheat, Culture of Wheat and Corn, What do they eat? White Blackberry, The White Blackberry, The Whity Township, Challenge of, for Ploughing Vireworm 114, 137, 159, I Winter-killed Wheat Wintering Stock, Best Manner of Wool Trade in Australia Worms and Grnbs, To Destroy Wood, Buying Wool, Directions for Sacking Yankee Ploughs don't suit all" York Township Club, Meeting of Young Trees, to promote the Growth of Index to Illustrations.  Ketchum's Mowing Machine Straw Cutter (Canadian) Hay and Straw Cutter (American) Hope Cottage, architecture	09 87 37 47 34 27 58 61 56 51 76 68 86 31 78 59 70 64 85 13 25 14 85 14 85 14 85 17 18 18 18 18 18 18 18 18 18 18 18 18 18
Gulture Gape in Chickens, Cure for 97, Gases of Manure Glass Milk Pans Good Seed, Importance of Gooseberry Cuttings, Fall Planting of Good Farming, What constitutes Good Farming, Secret of Good and Bad Luck Good and Bad Luck Gold Medal for the best Farm in H. D. Grafting, Directions for Grafting Currants Grass Seeds, Remarks on Sowing Grapes, To prevent Rot in Guano Guano, Destruction to Wireworm Gypsum, How to use Harvest, State of in Great Britain and Ireland Hampton Court Vine Hawthorn Hams, Preserving of "Curing Hay Seed Hay and Straw Cutter Harland Mr., of Guelph, notice of his Pigs Heaves, Cure for Heny and Flax Growing Hen Manure, Value of Hessian Fly Hessian Fly Soasonable G5, 88, Hints for February To Farmers "Soasonable G5, Highland and Agricultural Society of	86 94 125 109 101 175 151 185 37 77 85 126 41 121 121 124 37 25 65 77 43 14 13 14 37	Partnership, Notice of Dissolution of, between Proprietors of "Agriculturist" Peach Trees in Canada  "Borer, hot Lye a remedy for Phosphorate of Lime Pea Crop, the Pigs, Raising and Feeding Planting Plant Roads Plum Cakes, How to Make Pleuro—Pneumonia—Disease in Cattle Plaster, Cheap, for Coarse Finish Plum, Cultivation of "Diseases of Wild Ploughing Match between Canada and the State of New York Potatoes, To obtain New Variety of Potato Diseases S8, 112, Potatoes, to prevent Rot in Potatoes, Wild Poisoning from Seed Wheat steeped Provincial Agricultural Association, Proceedings of 40, 89, "Exhibition "Rules of Press, influence of, on Ag. Improvement Preservation of animal & veg. substances Prize Essays Pumpkins and Squashes, Storing Queries to be answered	171 134 100 85 150 150 3 106 150 3 114 164 172 77 75 171 98 115 163 115 115 115 115 115 115 115 115 115 11	Vegetable Manures Vinegar, inquiry as to making Vinegar, inquiry as to making Waggons, Anti-Friction Compound for Water for Stock Water, Advantage of, in Barn Yards I Weevil in Wheat Weather, notice of Wheat, Spring Treatment for Wheat, Points in the Culture of Wheat, Points in the Culture of Wheat, Improvement in Grinding Wheat, Culture of White and Corn, What do they eat? I White White Blackberry, The Whithy Township, Challenge of, for Ploughing Wireworm 114, 137, 159, I Winter-killed Wheat Wintering Stock, Best Manner of Wool Trade in Australia Worms and Grnbs, To Destroy Wood, Directions for Sacking "Yankee Ploughs don't suit all" York Township Club, Meeting of Young Trees, to promote the Growth of  Index to Illustrations.  Ketchum's Mowing Machine Straw Cutter (Canadian) Hay and Straw Cutter (American) Hope Cottage, architecture "ground plan of &c	09 87 37 47 34 27 51 61 51 76 69 86 61 77 87 76 88 77 68 76 76 76 76 76 76 76 76 76 76 76 76 76
Gardening Gardening Gardening Gape in Chickens, Curc for 97, Gases of Manure Glass Milk Pans Good Seed, Importance of Gooseberry Cuttings, Fall Planting of Gooseberry Cuttings, Fall Planting of Good Farming, What constitutes Good Farming, Secret of Good and Bad Luck Good and Bad Luck Good and Bad Luck Grafting Currants Grasting Currants Grasting Currants Grass Seeds, Remarks on Sowing Grapes, To prevent Rot in Guano Guano, Destruction to Wireworm Gypsum, How to use Harvest, State of in Great Britain and Ireland Hampton Court Vine Hawthorn Hams, Preserving of "Curing Hay Seed Hay and Straw Cutter Harland Mr., of Guelph, notice of his Pigs Heaves, Cure for 135, Hemp and Flax Growing Hen Manure, Value of Hessian Fly 65, 88, Hints for February "to Farmers "Seasonable 65, Highland and Agricultural Society of Scotland	\$6 94 125 109 101 175 185 37 37 77 77 85 164 41 121 121 124 37 151 124 37 41 13 41 124 37 41 13 41 124 37 41 124 41 125 41 125 41 125 41 125 41 125 41 125 41 41 41 41 41 41 41 41 41 41 41 41 41	Partnership, Notice of Dissolution of, between Proprietors of "Agriculturist" Peach Trees in Canada Borer, hot Lye a remedy for . Phosphorate of Lime Pea Crop, the Pigs, Raising and Feeding Planting Planting	171 134 100 85 150 185 3 106 150 3 14 164 177 75 14 164 177 177 171 185 116 116 117 117 117 117 117 117 117 117	Vegetable Manures Vinegar, inquiry as to making Vinegar, inquiry as to making Waggons, Anti-Friction Compound for Water for Stock Water, Advantage of, in Barn Yards I Weevil in Wheat Weather, notice of Wheat, Spring Treatment for Wheat, Points in the Culture of Wheat, Improvement in Grinding Wheat, Culture of Wheat and Corn, What do they eat? I White Blackberry, The White Blackberry, The Whithy Township, Challenge of, for Ploughing Wireworm 114, 137, 159, I Winter-killed Wheat Wintering Stock, Best Manner of Wool Trade in Australia Worms and Grnbs, To Destroy Wood, Directions for Sacking "Yankee Ploughs don't suit all" York Township Club, Meeting of Young Trees, to promote the Growth of  Index to Illustrations.  Ketchum's Mowing Machine Straw Cutter (Canadian) Hay and Straw Cutter (American) Hope Cottage, architecture "ground plan of, &c. Draining Tools	09 87 37 47 34 27 18 86 18 13 13 14 13 14 13 14 13 14 13 14 15 16 16 16 16 16 16 16 16 16 16 16 16 16
Gulture Gardening Gardening Gape in Chickens, Cure for 97, Gases of Manure Glass Milk Pans Good Seed, Importance of Gooseberry Cuttings, Fall Planting of Good Farming, What constitutes Good Farming, Secret of Good and Bad Luck Good and Bad Luck Gold Medal for the best Farm in H. D. Grafting, Directions for Grafting Currants Grass Seeds, Remarks on Sowing Grapes, To prevent Rot in Guano Guano, Destruction to Wireworm Gypsum, How to use Harvest, State of in Great Britain and Ireland Hampton Court Vine Hawthorn Hams, Preserving of "Curing Hay Seed Hay and Straw Cutter Harland Mr., of Guelph, notice of his Pigs Heaves, Cure for Hemp and Flax Growing Hen Manure, Value of Hessian Fly To Fatmers "Seasonable G5, 88, Hints for February "to Fatmers "Seasonable G5, Highland and Agricultural Society, no- tices of 25, 54.	86 94 125 125 126 177 77 85 126 164 41 121 86 170 177 151 101 124 37 25 65 77 4 113 148 148 100	Partnership, Notice of Dissolution of, between Proprietors of "Agriculturist" Peach Trees in Canada  "Borer, hot Lye a remedy for Phosphorate of Lime Pea Crop, the Pigs, Raising and Feeding Planting Match between Canada and the State of Now York Potatoes, To obtain New Variety of Poultry, Age of Potato Diseases Potatoes, to prevent Rot in Potatoes should not be mixed Potatoes, Wild Poisoning from Seed Wheat steeped Provincial Agricultural Association, Proceedings of "Exhibition "Rules of Press, influence of, on Ag. Improvement Preservation of animal & veg. substances Prize List of Provincial Show Prize Essays Pumpkins and Squashes, Storing Queries to be answered Rails, Charring Red Water in Cows Rice, To Dress Royal Agricult'l Society of England 41,	171 134 100 85 150 185 106 150 34 164 164 172 177 75 145 181 181 183 185 185 185 185 185 185 185 185 185 185	Vegetable Manures Vinegar, inquiry as to making Vaggons, Anti-Friction Compound for Water for Stock Water, Advantage of, in Barn Yards I Weevil in Wheat Weather, notice of Wheat, Spring Treatment for Wheat, Points in the Culture of Wheat, Improvement in Grinding Wheat, Culture of Wheat, Culture of White Blackberry, The White Blackberry, The White Blackberry, The White Jownship, Challenge of, for Ploughing Wireworm 114, 137, 159, I Winter-kiled Wheat Wintering Stock, Best Manner of Wood Trade in Australia Worms and Grnbs, To Destroy Wood, Buying Wool, Directions for Sacking "Yankee Ploughs don't suit all" York Township Club, Meeting of Young Trees, to promote the Growth of  Index to Illustrations.  Ketchum's Mowing Machine Straw Cutter (Canadian) Hay and Straw Cutter (American) Hope Cottage, architecture "ground plan of, &c. Draining Tools Fraer's Patent Churn Grafting, various modes	09 87 37 44 42 51 86 10 146 56 11 125 148 148 15 16 16 16 16 16 16 16 16 16 16 16 16 16
Gardening Gardening Gardening Gape in Chickens, Cure for 97, Gases of Manure Glass Milk Pans Good Seed, Importance of Gooseberry Cuttings, Fall Planting of Good Farming, What constitutes Good Farming, What constitutes Good Farming, Secret of Good and Bad Luck Good and Bad Luck Good Medal for the best Farm in H. D. Grafting, Directions for Grafting Currants Grass Seeds, Remarks on Sowing Grapes, To prevent Rot in Guano Guano, Destruction to Wireworm Gypsum, How to use Harvest, State of in Great Britain and Ireland Hampton Court Vine Hawthorn Hams, Preserving of "Curing Hay Seed Hay and Straw Cutter Harland Mr., of Guelph, notice of his Pigs Hen Wanure, Value of Hessian Fly Hessian Fly Seasonable G5, 88, Hints for February "to Farmers "Seasonable Home District Agricultural Society, no- tices of 125, 54, Hoven or Bloat, Remedy for	\$6 94 125 109 101 175 151 151 85 37 87 85 126 41 121 121 121 121 123 125 65 77 4 113 143 148 148 148 148	Partnership, Notice of Dissolution of, between Proprietors of "Agriculturist" Peach Trees in Canada  "Borer, hot Lye a remedy for Phosphorate of Lime Pea Crop, the Pigs, Raising and Feeding Planting Plant Roads Plum Cakes, How to Make Pleuro—Pneumonia—Disease in Cattle Plaster, Cheap, for Coarse Finish Plum, Cultivation of  "Diseases of Wild Ploughing Match between Canada and the State of New York Potatoes, To obtain New Variety of Potato Diseases S8, 112, Potatoes, to prevent Rot in Potatoes, wild Poisoning from Seed Wheat steeped Provincial Agricultural Association, Proceedings of  "Exhibition "Rules of Press, influence of, on Ag. Improvement Preservation of animal & veg. substances Prize Essays Pumpkins and Squashes, Storing Queries to be answered Rails, Charring Red Water in Cows Rice, To Dress Royal Agricult'l Society of England 41, " of Prince Edward's Island	171 134 100 95 150 150 3 106 150 3 114 164 179 175 171 98 185 175 171 185 185 185 185 185 185 185 185 185 18	Vegetable Manures Vinegar, inquiry as to making Vinegar, inquiry as to making Waggons, Anti-Friction Compound for Water for Stock Water, Advantage of, in Barn Yards I Weevil in Wheat Weather, notice of Wheat, Spring Treatment for Wheat, Spring Treatment for Wheat, Points in the Culture of Wheat, Improvement in Grinding Wheat, Culture of Wheat, Culture of White Blackberry, The White Blackberry, The White Blackberry, The White Mackberry, The White Mackberry, The White Mackberry, The Wireworm 114, 137, 159, I Winter-killed Wheat Wintering Stock, Best Manner of Wool Trade in Australia Worms and Grnbs, To Destroy Wood. Buying "Yankee Ploughs don't suit all" York Township Club, Meeting of Young Trees, to promote the Growth of  Index to Illustrations.  Ketchum's Mowing Machine Straw Cutter (Canadian) Hay and Straw Cutter (American) Hope Cottage, architecture "ground plan of, &c. Draining Tools Fraer's Patent Churn Grafting, various modes Butter's Patent Brick Machine	09 87 37 47 47 47 47 47 47 47 47 47 47 47 47 47
Gardening Gardening Gardening Gape in Chickens, Cure for 97, Gases of Manure Glass Milk Pans Good Seed, Importance of Gooseberry Cuttings, Fall Planting of Gooseberry Cuttings, Fall Planting of Good Farming, What constitutes Good Farming, Secret of Good and Bad Luck Good and Bad Luck Gold Medul for the best Farm in H. D. Grafting, Directions for Grafting Currants Grass Seeds, Remarks en Sowing Grapes, To prevent Rot in Guano Guano, Destruction to Wireworm Gypsum, How to use Harvest, State of in Great Britain and Ireland Hampton Court Vine Hawthorn Hams, Preserving of , Curing Hay Seed Hay and Straw Cutter Harland Mr., of Guelph, notice of his Pigs Heaves, Cure for 135, Hemp and Flax Growing Hen Manure, Value of Hessian Fly 65, 88, Hints for February , to Farmers , Seasonable Home District Agricultural Society of Scotland Hoven or Bloat, Remedy for Horticulture. Pleasures of	86 94 125 109 101 175 151 151 126 41 121 86 177 151 101 124 125 25 67 77 4 113 148 148 148	Partnership, Notice of Dissolution of, between Proprietors of "Agriculturist" Peach Trees in Canada Borer, hot Lye a remedy for Phosphorate of Lime Pea Crop, the Pigs, Raising and Feeding Planting Match between Canada and the State of New York Potatoes, To obtain New Variety of Poultry, Age of Potatoes, To obtain New Variety of Poultry, Age of Potato Diseases 88, 112, Potatoes, to prevent Rot in Potatoes, Wild Poisoning from Seed Wheat steeped Provincial Agricultural Association, Proceedings of 40, 89, "Exhibition Rules of Press, influence of, on Ag. Improvement Preservation of animal & veg. substances Prize List of Provincial Show Prize Essays Pumpkins and Squashes, Storing Queries to be answered Rails, Charring Red Water in Cows Rice, To Dress Royal Agricult'l Society of England 41, "of Prince Edward's Island Roots Farmers should raise.	171 134 100 85 150 150 150 150 150 150 150 15	Vegetable Manures Vinegar, inquiry as to making Vaggons, Anti-Friction Compound for Water for Stock Water, Advantage of, in Barn Yards I Weevil in Wheat Weather, notice of Wheat, Spring Treatment for Wheat, Points in the Culture of Wheat, Improvement in Grinding Wheat, Culture of Wheat, Culture of White Blackberry, The White Blackberry, The White Blackberry, The White Jownship, Challenge of, for Ploughing Wireworm 114, 137, 159, I Winter-kiled Wheat Wintering Stock, Best Manner of Wood Trade in Australia Worms and Grnbs, To Destroy Wood, Buying Wool, Directions for Sacking "Yankee Ploughs don't suit all" York Township Club, Meeting of Young Trees, to promote the Growth of  Index to Illustrations.  Ketchum's Mowing Machine Straw Cutter (Canadian) Hay and Straw Cutter (American) Hope Cottage, architecture "ground plan of, &c. Draining Tools Fraer's Patent Churn Grafting, various modes	09 87 37 44 327 51 86 1 68 86 31 7 85 9 9 0 64 8 1 3 5 4 7 5 5 6 6 7 6 8 8 3 3 6 7 6 8 8 3 3 6 7 6 8 8 3 3 6 7 6 8 8 3 3 6 7 6 8 8 3 3 6 7 6 8 8 3 7 6 7 6 8 8 3 7 6 7 6 8 8 3 7 6 7 6 8 8 3 7 6 7 6 8 8 7 7 7 7 7 7 7 7 7 7 7 7 7 7

## MISCELLANEOUS INDEX.

Miscellaneous Index.	Gardener at Walmer, The Page 33	Roofs, covering for Page 83
PAGE.	Garlic and Smut Machine	Rural Architecture 49
Acids		Savage Life, anecdote of 69
Action nobler than Lamentation 153 Adelaide Academy, notice of 57, 140		Sagacity of a Heifer 93
Adventure of an Editor 93	Coing to Low 71	School Books, Irish National Series 189
A long Dinner	Gold, To Wash Iron or Steel with 95	Scientific Convention
Andirons, cost of a pair of 142	C-11	Self Lamp Lighter
Ancient Metals 83		Shot Making 83
Anchor Ice	Have a Confident	Sick Persons, food for
Artificial Stone	Hoisting Apparatus 23	Sick Room, management of 190 Silk, to die a gold colour 95
Artesian Wells	Horse, The 129	Silk, to die a gold colour 95
Asphalte Felt Roofing 59	Horse Collar, Improved 165	Sir Walter Scott and Wilberforce 128
Assaying Metals	Household Cleaning	Silver Plate, how to clean
A Young Goose 82		Slave Hunters' Consolation 69
Banking, Articles on 42, 54, 66, 78, 91, 115	Imperial Dictionary, notice of	Sour Milk, to restore
Bad Practices 59		Speculation and Commercial Panic 5
Ballooning 35	India, Incidents of Every Day Life in 44	Sponge Cake, how to make 58
Bathing	Influenza, Origin of 50	Stuccos and Cements 35
Biography of Indians of North Ameri-	Indian Ink         95           Ingersol Wool Fair         129           Industry in Females         178	Starching Linen
ca, notice of	Ingersol Wool Fair 129	Steel, to polish
Blowing Logs with Powder	Industry in Females	Style, specimen of 82
Brick Making		Street Sweeping Machine 83 Strange but True Story
Building Societies	Iron Pillars, Strength of	Summer Tempest 46
Butters' Patent Brick Machine83, 113	Jewish Wife	Sullivan, Mr., remarks on his lect . 66
Buckle-making Machine 107	Keep yoor Promises	Sun, exposure to
Burns' Widow	Kind Words do not cost much . , 118	Summer Tempest 46 Sullivan, Mr., remarks on his lect 66 Sun, exposure to Sympathetic Inks, how to make
Building Materials : 155	Killing made Easy	Surveying and Measuring Instrument . 131
Building Materials	Lake of Blood 129	Surgical Discovery, important 191
Case Hardening	Legal Wit	Taxes, Finance, and Public Debts 4
Capturing a Plague 69	Legend of 1745	Teachers of Youth, importance of 7
Caffre Arms and Mode of Fighting 116	Legal Queries answered 91 i	The Left Eye, a Calmuc Tale 22
Garding Machine, new 143 Carbon and Diamond 166	Light, Velocity of 107!	The Wasted Flowers 94
Chambers Dr., his opinion of Marriage	Linen, To take Ink out of	The Press
with a deceased Wife's Sister 46	Lightning, Protection of Buildings	The Wise Bailie
Chloroform 59, 71. 152	from	The Wise Bailie
Cheese cs. Cannon Shot 104	Looking Glasses for Birds 95	Trees, planting in autumn 188
Chinese Grass	Lord Rosse's Telescope	Union Magazine, notice of 9
Cholera, Precautions against 188	Love and Marriage 179	United States, our Commercial Rela-
Cholera	Love and Marriage	tions with 30
Churn, Atmospheric 155, 166	Market Prices, &c., will be found on the	Unexpected Information 129 Usury Laws
	following name: 19 94 26 49 60	Usary Laws
Churn, Atmospheric, Outdone 191	following pages:—12, 24, 36, 48, 60,	770 C 7D
Churn, Atmospheric, Outdone 191 Cincinnati Pork	72, 84, 96, 108, 120, 132, 144, 156,	Village Gossip
Cincinnati Pork	72, 84, 96, 108, 120, 132, 144, 156, 168, 180, 192,	Vinegar from Milk
Climate of Canada	72, 84, 96, 108, 120, 139, 144, 156, 168, 180, 192, Matrimony and Meal : 10	Vinegar from Milk
Cincinnati Pork	72, 84, 96, 108, 120, 132, 144, 156, 168, 180, 192, Matrimony and Meal	Vinegar from Milk
Cincinnati Pork	72, 84, 96, 108, 120, 132, 144, 156, 168, 180, 192, Matrimony and Meal	Vinegar from Milk       71         Waggon Springs, new       23         Wedding at Jerusalem       105         Wheel Grease       119         Will. Reading the       10
Cincinnati Pork	72, 84, 96, 108, 120, 132, 144, 156, 168, 180, 192, Matrimony and Meal : 10 Man, strength of : 11 Menai Bridge, the : 11 Mexico, City of :	Vinegar from Milk       71         Waggon Springs, new       23         Wedding at Jerusalem       105         Wheel Grease       119         Will. Reading the       10
Cincinnati Pork	72, 84, 96, 108, 120, 132, 144, 156, 168, 180, 192, Matrimony and Meal : 10 Man, strength of 11 Menai Bridge, the	Vinegar from Milk       71         Waggon Springs, new       23         Wedding at Jerusalem       105         Wheel Grease       119         Will, Reading the       10         Wives, Rules for       22         Wires and Carpets       107
Cincinnati Pork   104	72, 84, 96, 108, 120, 132, 144, 156, 168, 180, 192, Matrimony and Meal	Vinegar from Milk       71         Waggon Springs, new       23         Wedding at Jerusalem       105         Wheel Grease       119         Will, Reading the       10         Wives, Rules for       22         Wives and Carpets       107         Wolves of the American Prairies       68
Cincinnati Pork   104	72, 84, 96, 108, 120, 132, 144, 156, 168, 180, 192, Matrimony and Meal 10 Man, strength of	Vinegar from Milk       71         Waggon Springs, new       23         Wedding at Jerusalem       105         Wheel Grease       119         Will, Reading the       10         Wives, Rules for       22         Wives and Carpets       107         Wolves of the American Prairies       68         Writing in various Colours, with the
Cincinnati Pork   104	72, 84, 96, 108, 120, 132, 144, 156, 168, 180, 192, Matrimony and Meal : 10 Man, strength of 11 Menai Bridge, the 11 Mexico, City of 107 Mill Wheel, improvement in	Vinegar from Milk       71         Waggon Springs, new       23         Wedding at Jerusalem       105         Wheel Grease       119         Wilk, Reading the       10         Wives, Rules for       22         Wives and Carpets       107         Wolves of the American Prairies       68         Writing in various Colours, with the same pen, ink, and paper       95
Cincinnati Pork   104	72, 84, 96, 108, 120, 132, 144, 156, 168, 180, 192, Matrimony and Meal : 10 Man, strength of : 11 Menai Bridge, the : 11 Mexico, City of : 110 Mill Wheel, improvement in : 143 Minor Morals, for Married People : 46 Moon, influences of the : 32, 55 Monarchs of Europe : 128 Mother, portrait of a : 153	Vinegar from Milk         71           Waggon Springs, new         23           Wedding at Jerusalem         105           Wheel Grease         119           Will, Reading the         10           Wives, Rules for         22           Wives and Carpets         107           Wolves of the American Prairies         68           Writing in various Colours, with the same pen, ink, and paper         95           Washing Muchine, new         191           Yeast, Receipt for making         154
Cincinnati Pork   104	72, 84, 96, 108, 120, 132, 144, 156, 168, 180, 192, Matrimony and Meal : 10 Man, strength of : 11 Menai Bridge, the : 11 Mexico, City of : 110 Mill Wheel, improvement in : 143 Minor Morals, for Married People : 46 Moon, influences of the : 32, 55 Monarchs of Europe : 128 Mother, portrait of a : 153	Vinegar from Milk       71         Waggon Springs, new       23         Wedding at Jerusalem       105         Wheel Grease       119         Will, Reading the       10         Wives, Rules for       22         Wives and Carpets       107         Wolves of the American Prairies       68         Writing in various Colours, with the same pen, ink, and paper       95         Washing Muchine, new       191         Yeast, Receipt for making       154         Young Ladies Hands       93
Cincinnati Pork   104	72, 84, 96, 108, 120, 132, 144, 156, 168, 180, 192, Matrimony and Meal	Vinegar from Milk       71         Waggon Springs, new       23         Wedding at Jerusalem       105         Wheel Grease       119         Will, Reading the       10         Wives, Rules for       22         Wives and Carpets       107         Wolves of the American Prairies       68         Writing in various Colours, with the same pen, ink, and paper       95         Washing Muchine, new       191
Cincinnati Pork   10.4	72, 84, 96, 108, 120, 132, 144, 156, 168, 180, 192, Matrimony and Meal	Vinegar from Milk         71           Waggon Springs, new         23           Wedding at Jerusalem         105           Wheel Grease         119           Will, Reading the         10           Wives, Rules for         22           Wives and Carpets         107           Wolves of the American Prairies         68           Writing in various Colours, with         same pen, ink, and paper         95           Washing Muchine, new         191           Yeast, Receipt for making         154           Young Ladies' Hands         93           Young People, Accomplishments of         153
Cincinnati Pork   10.4	72, 84, 96, 108, 120, 132, 144, 156, 168, 180, 192, Matrimony and Meal : 10 Man, strength of : 11 Menai Bridge, the : 11 Mexico, City of : 107 Meteor Dust, fall of : 119 Mill Wheel, improvement in : 143 Minor Morals, for Married People : 46 Moon, influences of the : 32, 55 Monarchs of Europe : 128 Mother, portrait of a : 153 Money Wasted : 165 News, miscellancous items of, will be found on pages 12, 24, 36, 48, 69, 72, 84, 96, 108, 120, 132, 144, 156, 168, 180, 192.	Vinegar from Milk       71         Waggon Springs, new       23         Wedding at Jerusalem       105         Wheel Grease       119         Will, Reading the       10         Wives, Rules for       22         Wives and Carpets       107         Wolves of the American Prairies       68         Writing in various Colours, with the same pen, ink, and paper       95         Washing Muchine, new       191         Yeast, Receipt for making       154         Young Ladies Hands       93
Cincinnati Pork   104	72, 84, 96, 108, 120, 132, 144, 156, 168, 180, 192, Matrimony and Meal : 10 Man, strength of : 11 Menai Bridge, the : 11 Mexico, City of : 107 Meteor Dust, fall of : 119 Mill Wheel, improvement in : 143 Minor Morals, for Married People : 46 Moon, influences of the : 32, 55 Monarchs of Europe : 128 Mother, portrait of a : 153 Money Wasted : 165 News, miscellaneous items of, will be found on pages 12, 24, 36, 48, 69, 72, 84, 96, 108, 120, 132, 144, 156, 168, 180, 192. Navigation Laws : 127	Vinegar from Milk 71  Waggon Springs, new 23  Wedding at Jerusalem , 105  Wheel Grease 119  Will, Reading the 10  Wives, Rules for 22  Wives and Carpets 107  Wolves of the American Prairies 68  Writing in various Colours, with the same pen, ink, and paper 95  Washing Muchine, new 191  Yeast, Receipt for making 154  Young Ladies Hands 93  Young People, Accomplishments of 153
Cincinnati Pork   10.4	72, 84, 96, 108, 120, 132, 144, 156, 168, 180, 192, Matrimony and Meal : 10 Man, strength of : 11 Menai Bridge, the : 11 Mexico, City of : 107 Meteor Dust, fall of : 119 Mill Wheel, improvement in : 143 Minor Morals, for Married People : 46 Moon, influences of the : 32, 55 Monarchs of Europe : 128 Mother, portrait of a : 153 Money Wasted : 165 News, miscellancous items of, will be found on pages 12, 24, 36, 48, 69, 72, 84, 96, 108, 120, 132, 144, 156, 168, 180, 192.  Navigation Laws : 127 Never Deceive a Child : 178	Vinegar from Milk 71  Waggon Springs, new 23  Wedding at Jerusalem , 105  Wheel Grease . 119  Will, Reading the 10  Wives, Rules for 22  Wives and Carpets . 107  Wolves of the American Prairies 68  Writing in various Colours, with the same pen, ink, and paper 95  Washing Muchine, new 191  Yeast, Receipt for making , 154  Young Ladies' Hands 93  Young People, Accomplishments of 153  Poetry.  Blessings in Disguise 118
Cincinnati Pork         10.4           Climate of Canada         43           Clean Hands         129           Common Schools—Journal of Education         31           Common School Act, interpretation of         45           Composition Buildings         47           Comets         93           Combustion of three Metals         95           Covetous Christian         104           Cosnetic Soap, to make a         130           Daguerrean Art         35           Days without Nights, &c.         117           Daguerreotype, The         167           Diet during Diseases         190           Diarrhea, Dysentery, &c.         191           Dough Nuts, How to make         130           Domestic Economy         179           Dress for the Mind         118           Drummond Light         119           Draining and irrigating Machine         179	72, 84, 96, 108, 120, 132, 144, 156, 168, 180, 192, Matrimony and Meal : 10 Man, strength of : 11 Menai Bridge, the : 11 Mexico, City of : 107 Mill Wheel, improvement in : 143 Minor Morals, for Matried People : 46 Moon, influences of the : 32, 55 Monarchs of Europe : 128 Mother, portrait of a : 153 Money Wasted : 165 News, miscellancous items of, will be found on pages 12, 24, 36, 48, 69, 72, 84, 96, 108, 120, 132, 144, 156, 168, 180, 192.  Navigation Laws : 127 Never Deceive a Child : 178 Niagara Falls Bridge : 44, 155	Vinegar from Milk 71  Waggon Springs, new 23  Wedding at Jerusalem , 105  Wheel Grease 119  Will, Reading the 10  Wives, Rules for 22  Wives and Carpets 107  Wolves of the American Prairies 68  Writing in various Colours, with the same pen, ink, and paper 95  Washing Muchine, new 191  Yeast, Receipt for making 154  Young Ladies' Hands 93  Young People, Accomplishments of 153  Peetry.  Blessings in Disguise 118  Be kind to Old Age 176
Cincinnati Pork         10.4           Climate of Canada         43           Clean Hands         129           Common Schools—Journal of Education         31           Common School Act, interpretation of         45           Composition Buildings         47           Comets         93           Combustion of three Metals         95           Covetous Christian         104           Cosmetic Soap, to make a         130           Daguerrean Art         35           Days without Nights, &c.         117           Daguerrecotype, The         167           Diet during Diseases         190           Diarrhea, Dysentery, &c.         191           Dough Nuts, How to make         130           Domestic Econemy         179           Dress for the Mind         118           Draining and irrigating Machine         179           Elizabeth Fry, the Quakeress         82	72, 84, 96, 108, 120, 132, 144, 156, 168, 180, 192, Matrimony and Meal : 10 Man, strength of : 11 Menai Bridge, the : 11 Mexico, City of : 107 Meteor Dust, fall of : 119 Mill Wheel, improvement in : 143 Minor Morals, for Married People : 46 Moon, influences of the : 32, 55 Monarchs of Europe : 128 Mother, portrait of a : 153 Money Wasted : 165 News, miscellaneous items of, will be found on pages 12, 24, 36, 48, 69, 72, 84, 96, 108, 120, 132, 144, 156, 168, 180, 192.  Navigation Laws : 127 Never Deceive a Child : 178 Niagara Falls Bridge : 44, 155 Orator and Newspaper : 55	Vinegar from Milk 71  Waggon Springs, new 23  Wedding at Jerusalem , 105  Wheel Grease . 119  Will, Reading the 10  Wives, Rules for 22  Wives and Carpets . 107  Wolves of the American Prairies 68  Writing in various Colours, with the same pen, ink, and paper 95  Washing Muchine, new 191  Yeast, Receipt for making , 154  Young Ladies' Hands 93  Young People, Accomplishments of 153  Poetry.  Blessings in Disguise 118  Be kind to Old Age 178  Hump for the Harvest Home of 1847
Cincinnati Pork	72, 84, 96, 108, 120, 132, 144, 156, 168, 180, 192, Matrimony and Meal : 10 Man, strength of : 11 Menai Bridge, the : 11 Mexico, City of : 107 Meteor Dust, fall of : 119 Mill Wheel, improvement in : 143 Minor Morals, for Married People : 46 Moon, influences of the : 32, 55 Monarchs of Europe : 128 Mother, portrait of a : 153 Money Wasted : 165 News, miscellaneous items of, will be found on pages 12, 24, 36, 48, 69, 72, 84, 96, 108, 120, 132, 144, 156, 168, 180, 192.  Navigation Laws : 127 Never Deceive a Child : 178 Niagara Falls Bridge : 44, 155 Orator and Newspaper : 55 Our Present Difficulties : 115	Vinegar from Milk 71  Waggon Springs, new 23  Wedding at Jerusalem , 105  Wheel Grease . 119  Will, Reading the 10  Wives, Rules for 22  Wives and Carpets . 107  Wolves of the American Prairies 68  Writing in various Colours, with the same pen, ink, and paper 95  Washing Muchine, new 191  Yeast, Receipt for making , 154  Young Ladies' Hands 93  Young People, Accomplishments of 153  Poetry.  Blessings in Disguise 118  Be kind to Old Age 178  Hump for the Harvest Home of 1847
Cincinnati Pork         10.4           Climate of Canada         43           Clean Hands         129           Common Schools—Journal of Education         31           Common School Act, interpretation of         45           Composition Buildings         47           Composition Buildings         93           Combustion of three Metals         95           Covetous Christian         104           Cosmetic Soap, to make a         130           Daguerrean Art         35           Days without Nights, &c.         117           Daguerreotype, The         167           Diet during Diseases         190           Diarrhæa, Dysentery, &c.         191           Dough Nuts, How to make         130           Domestic Econemy         179           Dress for the Mind         118           Draining and irrigating Machine         179           Elizabeth Fry, the Quakeress         82           Electricity Universal         35           Electricity Universal         35           Floctricity Light         95	72, 84, 96, 108, 120, 132, 144, 156, 168, 180, 192, Matrimony and Meal	Vinegar from Milk 71  Waggon Springs, new 23  Wedding at Jerusalem , 105  Wheel Grease . 119  Will, Reading the 10  Wives, Rules for 22  Wives and Carpets . 107  Wolves of the American Prairies 68  Writing in various Colours, with the same pen, ink, and paper 95  Washing Muchine, new 191  Yeast, Receipt for making , 154  Young Ladies' Hands 93  Young People, Accomplishments of 153  Poetry.  Blessings in Disguise 118  Be kind to Old Age 178  Hump for the Harvest Home of 1847
Cincinnati Pork         10.4           Climate of Canada         43           Clean Hands         129           Common Schools—Journal of Education         31           Common School Act, interpretation of         45           Composition Buildings         47           Comets         93           Comets         95           Covetous Christian         104           Coemetic Soap, to make a         130           Daguerrean Art         35           Days without Nights, &c.         117           Daguerreotype, The         167           Diet during Diseases         190           Diarrhœa, Dysentery, &c.         191           Dough Nuts, How to make         130           Domestic Econemy         179           Dress for the Mind         118           Draming and irrigating Machine         179           Elizabeth Fry, the Quakeress         82           Electricity Universal         35           Electricity Universal         35           Electrical Light         95           Emigration to British North America 42, 115	72, 84, 96, 108, 120, 132, 144, 156, 168, 180, 192, Matrimony and Meal : 10 Man, strength of : 11 Menai Bridge, the : 11 Mexico, City of : 107 Meteor Dust, fall of : 119 Mill Wheel, improvement in : 143 Minor Morals, for Married People : 46 Moon, influences of the : 32, 55 Monarchs of Europe : 128 Mother, portrait of a : 153 Money Wasted : 165 News, miscellaneous items of, will be found on pages 12, 24, 36, 48, 69, 72, 84, 96, 108, 120, 132, 144, 156, 168, 180, 192. Navigation Laws : 127 Never Deceive a Child : 178 Niagara Falls Bridge : 14, 152 Orator and Newspaper : 55 Our Present Difficulties : 58 Paints, improvement in : 107	Vinegar from Milk 71  Waggon Springs, new 23  Wedding at Jerusalem , 105  Wheel Grease 119  Will, Reading the 10  Wives, Rules for 22  Wives and Carpets 107  Wolves of the American Prairies 68  Writing in various Colours, with the same pen, ink, and paper 95  Washing Muchine, new 191  Yeast, Receipt for making 154  Young Ladies' Hands 93  Young People, Accomplishments of 153  Poetry.  Blessings in Disguise 118  Be kind to Old Age 178  Home ; 46  Hymn for the Harvest Home of 1847 43  Keep at Work 66  My Russet Gown 22  Plough Deep to Find the Gold 104
Cincinnati Pork	72, 84, 96, 108, 120, 132, 144, 156, 168, 180, 192, Matrimony and Meal	Vinegar from Milk 71  Waggon Springs, new 23  Wedding at Jerusalem , 105  Wheel Grease . 119  Will, Reading the . 10  Wives, Rules for 22  Wives and Carpets . 107  Wolves of the American Prairies 68  Writing in various Colours, with the same pen, ink, and paper 95  Washing Muchine, new 191  Yeast, Receipt for making , 154  Young Ladies' Hands 93  Young People, Accomplishments of 153  Poetry.  Blessings in Disguise 118  Be kind to Old Age 178  Home 178  Hymn for the Harvest Home of 1847  Keep at Work 64  My Russet Gown 22  Plough Deep to Find the Gold 194  "Seem put he" 194
Cincinnati Pork	72, 84, 96, 108, 120, 132, 144, 156, 168, 180, 192, Matrimony and Meal	Vinegar from Milk 71  Waggon Springs, new 23  Wedding at Jerusalem , 105  Wheel Grease 119  Will, Reading the 10  Wives, Rules for 22  Wives and Carpets 107  Wolves of the American Prairies 68  Writing in various Colours, with the same pen, ink, and paper 95  Washing Muchine, new 191  Yeast, Receipt for making 154  Young Ladies' Hands 93  Young People, Accomplishments of 153  Postry.  Blessings in Disguise 118  Be kind to Old Age 178  Home 46  Hymn for the Harvest Home of 1847 43  Keep at Work 64  My Russet Gown 22  Plough Deep to Find the Gold 104  "Seem not, be" 99
Cincinnati Pork	72, 84, 96, 108, 120, 132, 144, 156, 168, 180, 192, Matrimony and Meal	Vinegar from Milk 71  Waggon Springs, new 23  Wedding at Jerusalem , 105  Wheel Grease 119  Will, Reading the 10  Wives, Rules for 22  Wives and Carpets 107  Wolves of the American Prairies 68  Writing in various Colours, with the same pen, ink, and paper 95  Washing Muchine, new 191  Yeast, Receipt for making 154  Young Ladies' Hands 93  Young People, Accomplishments of 153  Poetry.  Blessings in Disguise 118  Be kind to Old Age 178  Home 146  Hymn for the Harvest Home of 1847 43  Keep at Work 66  My Russet Gown 22  Plough Deep to Find the Gold 104  "Seem not, be" 32  Spring 32  The Welcoine 101  The Tiller of the Soil 31
Cincinnati Pork	72, 84, 96, 108, 120, 132, 144, 156, 168, 180, 192, Matrimony and Meal	Vinegar from Milk 71  Waggon Springs, new 23  Wedding at Jerusalem , 105  Wheel Grease 119  Will, Reading the 10  Wives, Rules for 22  Wives and Carpets 107  Wolves of the American Prairies 68  Writing in various Colours, with the same pen, ink, and paper 95  Washing Muchine, new 191  Yeast, Receipt for making , 154  Young Ladies' Hands 93  Young People, Accomplishments of 153  Poetry.  Blessings in Disguise 118  Be kind to Old Age 178  Home 46  Hymn for the Harvest Home of 1847 43  Keep at Work 66  My Russet Gown 22  Wives and Carpets 100  Weem not, be 104  "Seem not, be 104  "Seem not, be 105  The Welcome 100  The Tiller of the Soil 31  The Good Wife 344
Cincinnati Pork	72, 84, 96, 108, 120, 132, 144, 156, 168, 180, 192, Matrimony and Meal	Vinegar from Milk 71  Vaggon Springs, new 23  Wedding at Jerusalem , 105  Wheel Grease 119  Will, Reading the 10  Wives, Rules for 22  Wives and Carpets 107  Wolves of the American Prairies 68  Writing in various Colours, with the same pen, ink, and paper 95  Washing Muchine, new 191  Yeast, Receipt for making 154  Young Ladies Hands 93  Young People, Accomplishments of 153  Postry.  Blessings in Disguise 118  Be kind to Old Age 178  Home ; 46  Hymn for the Harvest Home of 1847 43  Keep at Work 64  My Russet Gown 22  The Welcome 19  The Tiller of the Soil 31  The Good Wife 55  The Fire 55
Cincinnati Pork	72, 84, 96, 108, 120, 132, 144, 156, 168, 180, 192, Matrimony and Meal : 10 Man, strength of : 11 Menai Bridge, the : 11 Mexico, City of : 107 Meteor Dust, fall of : 119 Mill Wheel, improvement in : 143 Minor Morals, for Married People : 46 Moon, influences of the : 32, 55 Monarchs of Europe : 128 Mother, portrait of a : 153 Money Wasted : 165 News, miscellancous items of, will be found on pages 12, 24, 36, 48, 69, 72, 84, 96, 108, 120, 132, 144, 156, 168, 180, 192. Navigation Laws : 127 Never Deceive a Child : 178 Niagara Falls Bridge : 44, 152 Orator and Newspaper : 55 Our Present Difficulties : 158 Paints, improvement in : 107 Parlours, remarks on care of : 118 Patent Pen Holder : 179 Periodic Vibration : 56 Pickled Cabbage : 156 Planting Machine, improved : 157 Post Office, sending money through : 54	Vinegar from Milk 71  Waggon Springs, new 23  Wedding at Jerusalem , 105  Wheel Grease 119  Will, Reading the 10  Wives, Rules for 22  Wives and Carpets 107  Wolves of the American Prairies 68  Writing in various Colours, with the same pen, ink, and paper 95  Washing Muchine, new 191  Yeast, Receipt for making 154  Young Ladies Hands 93  Young People, Accomplishments of 153  Poetry.  Blessings in Disguise 118  Be kind to Old Age 178  Home ; 46  Hymn for the Harvest Home of 1847 43  Keep at Work 66  My Russet Gown 22  Plough Deep to Find the Gold 104  "Seem not, be" 19  The Welcome 107  The Good Wife 34  The Fire 55
Cincinnati Pork	72, 84, 96, 108, 120, 132, 144, 156, 168, 180, 192, Matrimony and Meal	Vinegar from Milk 71  Waggon Springs, new 23  Wedding at Jerusalem , 105  Wheel Grease . 119  Will, Reading the . 10  Wives, Rules for 22  Wives and Carpets . 107  Wolves of the American Prairies 68  Writing in various Colours, with the same pen, ink, and paper 95  Washing Muchine, new 191  Yeast, Receipt for making , 154  Young Ladies' Hands 93  Young People, Accomplishments of 153  Peetry.  Blessings in Disguise 118  Be kind to Old Age 178  Home 178  Home 143  Keep at Work 194  Keep at Work 194  Wy Russet Gown 22  The Welcome 195  The Welcome 190  The Tiller of the Soil 31  The Good Wife 35  The Bridal Day 55  The Bridal Day 55  The Bridal Day 55  The Bridal Day 55  The Bridal Day 75  The Magnetic Telegraph 55
Cincinnati Pork 10.4 Climate of Canada 43 Clean Hands 129 Common Schools—Journal of Education 31 Common School Act, interpretation of 45 Composition Buildings 47 Comets 95 Covetous Christian 104 Cosmetic Soap, to make a 130 Daguerrean Art 35 Days without Nights, &c. 117 Daguerreotype, The 167 Diet during Diseases 190 Diarrhea, Dysentery, &c. 191 Dough Nuts, How to make 130 Domestic Economy 179 Dress for the Mind 118 Drummond Light 119 Draining and irrigating Machine 179 Elizabeth Fry, the Quakeress 82 Electrical Light 95 Emigration to British North America 42, 115 Energy and Mind 165 Engine, New Four Horse Power 47 Epidemics, Couses of 83 Ether Superceded 47 Evergreens, Transplanting 188 Excellent Dish 76 Fernale Education 68 Franse of Innovation 129	72, 84, 96, 108, 120, 132, 144, 156, 168, 180, 192, Matrimony and Meal	Vinegar from Milk 71  Waggon Springs, new 23  Wedding at Jerusalem , 105  Wheel Grease . 119  Will, Reading the . 10  Wives, Rules for 22  Wives and Carpets . 107  Wolves of the American Prairies 68  Writing in various Colours, with the same pen, ink, and paper 95  Washing Muchine, new 191  Yeast, Receipt for making , 154  Young Ladies' Hands 93  Young People, Accomplishments of 153  Peetry.  Blessings in Disguise 118  Be kind to Old Age 178  Home 178  Home 143  Keep at Work 194  Keep at Work 194  Wy Russet Gown 22  The Welcome 195  The Welcome 190  The Tiller of the Soil 116  The Fire 156  The Bridal Day 156  The Magnetic Telegraph 156
Cincinnati Pork	72, 84, 96, 108, 120, 132, 144, 156, 168, 180, 192, Matrimony and Meal	Vinegar from Milk 71  Vaggon Springs, new 23  Wedding at Jerusalem , 105  Wheel Grease 119  Will, Reading the 10  Wives, Rules for 22  Wives and Carpets 107  Wolves of the American Prairies 68  Writing in various Colours, with the same pen, ink, and paper 95  Washing Muchine, new 191  Yeast, Receipt for making 154  Young Ladies Hands 93  Young People, Accomplishments of 153  Postry.  Blessings in Disguise 118  Be kind to Old Age 178  Home 46  Hymn for the Harvest Home of 1847 43  Keep at Work 66  My Russet Gown 22  Plough Deep to Find the Gold 104  "Seem not, be" 19  Spring 98  Spring 98  Spring 98  The Welcome 10  The Tiller of the Soil 31  The Good Wife 34  The Fire 55  The Bridal Day 55  The Bridal Day 55  The Gypsy Child 79  The Last Leaf 88
Cincinnati Pork	72, 84, 96, 108, 120, 132, 144, 156, 168, 180, 192, Matrimony and Meal	Vinegar from Milk 71  Waggon Springs, new 23  Wedding at Jerusalem , 105  Wheel Grease . 119  Will, Reading the . 10  Wives, Rules for 22  Wives and Carpets . 107  Wolves of the American Prairies 68  Writing in various Colours, with the same pen, ink, and paper 95  Washing Muchine, new 191  Yeast, Receipt for making , 154  Young Ladies' Hands 93  Young People, Accomplishments of 153  Poetry.  Blessings in Disguise 118  Be kind to Old Age 178  Home 178  Hymn for the Harvest Home of 1847  Keep at Work 64  My Russet Gown 22  Spring 95  The Welcome 104  The Tiller of the Soil 31  The Good Wife 35  The Bridal Day 55  The Magnetic Telegraph 55  The Last Leaf 75  The Vacant Seat 90  The Taller of Comminint 100
Cincinnati Pork 10.4 Climate of Canada 43 Clean Hands 129 Common Schools—Journal of Education 31 Common School Act, interpretation of 45 Composition Buildings 47 Comets 93 Combust 95 Covetous Christian 10.4 Cosmetic Soap, to make a 130 Daguerrean Art 35 Days without Nights, &c. 11.7 Daguerreotype, The 167 Diet during Diseases 190 Diarrhœa, Dysentery, &c. 191 Dough Nuts, How to make 130 Domestic Economy 179 Dress for the Mind 118 Drammond Light 119 Draining and irrigating Machine 179 Elizabeth Fry, the Quakeress 82 Electrical Light 95 Electrical Light 95 Emigration to British North America 42, 115 Energy and Mind 165 Engine, New Four Horse Power 47 Epidemics, Causes of 83 Excellent Dish 154 France's Daughter, The 70 Fernale Education 129 File Cutting Machine 59 Floriculture 185	72, 84, 96, 108, 120, 132, 144, 156, 168, 180, 192, Matrimony and Meal	Vinegar from Milk 71  Waggon Springs, new 23  Wedding at Jerusalem , 105  Wheel Grease 119  Will, Reading the 10  Wives, Rules for 22  Wives and Carpets 107  Wolves of the American Prairies 68  Writing in various Colours, with the same pen, ink, and paper 95  Washing Muchine, new 191  Yeast, Receipt for making , 154  Young Ladies' Hands 93  Young People, Accomplishments of 153  Poetry.  Blessings in Disguise 118  Be kind to Old Age 178  Home 46  Hymn for the Harvest Home of 1847 43  Keep at Work 66  My Russet Gown 22  The Welcome 10  The Tiller of the Soil 31  The Good Wife 34  The Fire 55  The Bridal Day 55  The Magnetic Telegraph 67  The Last Leaf 85  The Vacant Seat 100  The Lindian's Lament 117  The Indian's Lament 117  The Indian's Lament 117  The Indian's Lament 117
Cincinnati Pork	72, 84, 96, 108, 120, 132, 144, 156, 168, 180, 192, Matrimony and Meal	Vinegar from Milk 71  Waggon Springs, new 23  Wedding at Jerusalem 105  Wheel Grease 119  Will, Reading the 10  Wives, Rules for 22  Wives and Carpets 107  Wolves of the American Prairies 68  Writing in various Colours, with the same pen, ink, and paper 95  Washing Muchine, new 191  Yeast, Receipt for making 154  Young Ladies Hands 93  Young People, Accomplishments of 153  Postry.  Blessings in Disguise 118  Be kind to Old Age 178  Home 46  Hymn for the Harvest Home of 1847 43  Keep at Work 64  My Russet Gown 22  Plough Deep to Find the Gold 104  "Seem not, be" 39  Spring 92  Spring 93  Spring 93  The Welcome 10  The Tiller of the Soil 31  The Good Wife 34  The Bridal Day 55  The Last Leaf 75  The Bachelor's Complaint 100  The Indian's Lament 117  The Welcome Back 133
Cincinnati Pork	72, 84, 96, 108, 120, 132, 144, 156, 168, 180, 192, Matrimony and Meal	Vinegar from Milk 71  Waggon Springs, new 23  Wedding at Jerusalem 105  Wheel Grease 119  Will, Reading the 10  Wives, Rules for 22  Wives and Carpets 107  Wolves of the American Prairies 68  Writing in various Colours, with the same pen, ink, and paper 95  Washing Muchine, new 191  Yeast, Receipt for making 154  Young Ladies Hands 93  Young People, Accomplishments of 153  Postry.  Blessings in Disguise 118  Be kind to Old Age 178  Home 46  Hymn for the Harvest Home of 1847 43  Keep at Work 66  My Russet Gown 22  Plough Deep to Find the Gold 104  "Seem not, be" 19  Spring 92  The Welcome 10  The Tiller of the Soil 31  The Good Wife 34  The Fire 55  The Bridal Day 55  The Bridal Day 55  The Bridal Day 55  The Magnetic Telegraph 67  The Last Leaf 75  The Bachelor's Complaint 100  The Indian's Lament 117  The Welcome Back 133  The Welcome Back 133  The Land of Dreams 134  The Land of Dreams 134
Cincinnati Pork 10.4 Climate of Canada 43 Clean Hands 129 Common Schools—Journal of Education 31 Common School Act, interpretation of 45 Composition Buildings 47 Comets 95 Covetous Christian 104 Cosmetic Soap, to make a 130 Daguerrean Art 35 Days without Nights, &c. 117 Daguerreotype, The 167 Diet during Discass 190 Diarthea, Dysentery, &c. 191 Dough Nuts, How to make 130 Domestic Economy 179 Dress for the Mind 118 Draining and irrigating Machine 179 Elizabeth Fry, the Quakeress 82 Electrical Light 95 Emigration to British North America 42, 115 Energy and Mind 165 Engine, New Four Horse Power 47 Epidemics, Couses of 83 Ether Superceded 47 Evergreens, Transplanting 188 Excellent Dish 154 Farners' Daughter, The 70 Female Education 129 Florey Improved Process of Manufacturing . 179 Floury, Improved Process of Manufacturing . 179 Floury, Improved Process of Manufacturing . 179 Floury, Improved Process of Manufacturing . 179	72, 84, 96, 108, 120, 132, 144, 156, 168, 180, 192, Matrimony and Meal	Vinegar from Milk 71  Waggon Springs, new 23  Wedding at Jerusalem , 105  Wheel Grease 119  Will, Reading the 10  Wives, Rules for 22  Wives and Carpets 107  Wolves of the American Prairies 68  Writing in various Colours, with the same pen, ink, and paper 95  Washing Muchine, new 191  Yeast, Receipt for making , 154  Young Ladies' Hands 93  Young People, Accomplishments of 153  Poetry.  Blessings in Disguise 118  Be kind to Old Age 178  Home 178  Hymn for the Harvest Home of 1847  Keep at Work 64  My Russet Gown 22  Plough Deep to Find the Gold 104  "Seem not, be" 32  The Welcome 100  The Tiller of the Soil 31  The Good Wife 35  The Bridal Day 55  The Magnetic Telegraph 65  The Last Leaf 95  The Vacant Seat 96  The Last Leaf 95  The Land of Dreams 144  The Land of Dreams 144
Cincinnati Pork 10.4 Climate of Canada 43 Clean Hands 129 Common Schools—Journal of Education 31 Common School Act, interpretation of 45 Composition Buildings 47 Comets 95 Covetous Christian 104 Cosmetic Soap, to make a 130 Daguerrean Art 35 Days without Nights, &c. 117 Daguerreotype, The 167 Diet during Discass 190 Diarthea, Dysentery, &c. 191 Dough Nuts, How to make 130 Domestic Economy 179 Dress for the Mind 118 Draining and irrigating Machine 179 Elizabeth Fry, the Quakeress 82 Electrical Light 95 Emigration to British North America 42, 115 Energy and Mind 165 Engine, New Four Horse Power 47 Epidemics, Couses of 83 Ether Superceded 47 Evergreens, Transplanting 188 Excellent Dish 154 Farners' Daughter, The 70 Female Education 129 Florey Improved Process of Manufacturing . 179 Floury, Improved Process of Manufacturing . 179 Floury, Improved Process of Manufacturing . 179 Floury, Improved Process of Manufacturing . 179	72, 84, 96, 108, 120, 132, 144, 156, 168, 180, 192, Matrimony and Meal	Vinegar from Milk 71  Waggon Springs, new 23  Wedding at Jerusalem , 105  Wheel Grease 119  Will, Reading the 10  Wives, Rules for 22  Wives and Carpets 107  Wolves of the American Prairies 68  Writing in various Colours, with the same pen, ink, and paper 95  Washing Muchine, new 191  Yeast, Receipt for making , 154  Young Ladies' Hands 93  Young People, Accomplishments of 153  Poetry.  Blessings in Disguise 118  Be kind to Old Age 178  Home 178  Hymn for the Harvest Home of 1847  Keep at Work 64  My Russet Gown 22  Plough Deep to Find the Gold 104  "Seem not, be" 32  The Welcome 100  The Tiller of the Soil 31  The Good Wife 35  The Bridal Day 55  The Magnetic Telegraph 65  The Last Leaf 95  The Vacant Seat 96  The Last Leaf 95  The Land of Dreams 144  The Land of Dreams 144