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Vol. I.]

HALIFAX, FRIDAY, APRIL 10, 1835.

No. 13.

# NATURAL HISTORY.

THE CAMEL.

The camel is a very large animal, and can carry very large burdens on his back, sometimes as much as a thousand or twelve hundred pounds. The people who live in the very hot countries, and are obliged to take long journeys over the burning and barren sandy deserts, would not know what to do without the camel. The camel moves slowly, but he can travel a very great distance with but little food or water; and this is of particular consequence in the journeys through the deserts, where there is very little food to be had, and where water is very scarce.-Providence has formed the camel in a manner exactly suited to the work which it has to perform. It has a tough spongy sort of foot which is never found to crack, and this is of vast importance in hot climates and long journeys: and it has, besides, a stomach so formed that it can contain a great quantity of water in reserve, by which it is enabled to moisten its food; if it had not this, it would perish, in a hot country where taught to do such services as are required of him.

I It is a delightful study to think of the perfect and excellent manner in which the within, which can retain a supply of water, would be of no use in a country like ours ness of the all-wise Creator of all things .-And every animal that exists would prove difficulty, and platina with much. the same thing if we examined it carefully; and this thought ought to raise our minds to great Creator, and of pious gratitude for all his mercies.

## COMMON THINGS.

No. 7.-METALS.

common things is gold spread?

The tin mines of Cornwall have made

there that does not contain iron? The rocks nese is almost always found in the state of are coloured by it. Plants and animals an oxid, and it is difficult to reduce it to a contain it. It even constitutes a part of our metalic state. Iron oxidizes in the common blood, and of course circulates in all our atmosphere, more rapidly if moistened with veins—What instrument or article is there water, and still more so, if moistened with in civilized society, which does not bear the an add. Lead and copper oxidize to a very mark of iron?

Besides gold, silver, tin, and iron, we have by the aid of heat or some acid. copper, lead, zinc, antimony, sizimuth, cohalt, platina, manganese, arsenic: all use-ties, and consequently in the uses of the ful in the arts and comforts of civilization, metals. The properties of iron, for example, and many other bodies which are called admirably fit it for edge tools, besides many

guishes them from other bodies? One thing which distinguishes them from all other bodics, is their weight. The heaveist metal 6 times as much as water.

The metals also possess greater strength uses made of it. than any other substance; and iron is the required.

inch in thickness, is most malleable; and metals. silver, next. Copper, lead, tin, and iron, can also be beaten or rolled into leaves.

The metals are ductile; they can be drawn Almighty has formed every creature, ac- into wire. A single grain of gold has been cording to its necessities and the place where drawn into a wire 500 feet long. Iron and In a previous number it was remarked it is to live. The contrivance of something silver are exceedingly ductile. Copper, that the whole vegetable kingdom was com-

where water is every where to be had; but heat. Mercury is fusible at the common these three starch is composed. And starch it is of very great use indeed in a burning temperature, and at the coldest temperature constitutes a large part of most grains, and climate where water is so very difficult to be of the atmosphere we experience in this many roots. Into some of the grains, espetoud. This shews the great power and good-country. Lead, gold, silver, and copper, cially wheat, and in less quantities rye, are melted without difficulty, iron with some another substance, entirely unlike starch en-

The metals are soluble; many of the acids composed of oxygen, hydrogen and carbon. will dissolve some of them, and all can be descut admiration of all the works of our dissolved by some one or two acids mixed. can be easily separated either in the grain or Upon what can we fix our eye, which sed through a gallon of water, and by the exposed to repeated washings, pouring off does not contain a metal, or bear its mark? aid of a little ammonia, give it a most beau- the water after it is applied, it will gradual-Even the precious metals, how common? tiful and delicate blue. One ounce of gold, ly dissolve, and carry off the starch from though perhaps not quite so abundant in the dissolved in nitro muriatic acid with the aid the flour, leaving the gluten by itself. The hands of every one, as he would like. Over of other, can be made to gild the whole sur- gluten is unlike starch in being insoluble how many thousand feet of the surface of face of a wire which would reach round the in water, but it is tenacious and elastic, reearth.

The metals are oxidized. Some of them themselves known by their inexhaustible combine with oxigen readily; it is even dif- light bread. The flour of Indian corn, rice, treesures, all over the world. And what is ficult to prevent this combination. Manga- potatoes, and many other vegetables, though

slight extent in the atmosphere, and entirely

There is a beautiful variety in the properothec uses to which it is applied. It is hard, And what are metals? What distin- strong, elastic, capable of being welded and tempered, and of receiving the power of magnetism.

When the properties of this metal, which weighs 23 times as much as water; the light- is perhaps the only one essential to the arts est of the common metals weighs more than of civil zation, are known, a full explanation is given of the endless and innumerable

The great malleability of gold, and its restrongest of the metals, and on that account disting oxigen under all ordinary circumis in common use where great strength is stances, are two properties wisely and beautifully united in that precious metal, and in The metals are malleable; they can be some measure make amends for the small it could find no water to urink. The camel beaten into leaves. Gold which can be beat- quantities in which it is found upon the earth, is of smild and gentle disposition, and easily en into leaves 280 thousandth part of an compared with lead, copper, and some other

## THE ARTS.

BREAD.

lead, and zinc, can also be drawn into wire. posed of three simple elementary substances, Metals are fusible; they can be melted by viz. oxygen, hydrogen, and carbon. O. ters. This is called gluten, which is also

The starch and gluten composing wheat When once dissolved, they can be changed flour. The starch is soluble in water and into various forms diffused through a great the gluten is not: consequently, if kernels space, and spread over a great surface. A of wheat be retained in the mouth for a short piece of copper, as large as a pin's head, time, the starch will be dissolved and redissolved in nitric sulphuric or acetic acid, moved, leaving behind the gluten. Or, if may be so minutely divided, as to be diffu- a gill of wheat flour be put into a cup, and sembling India rubber.

To the gluten we are entirely indebted for

gluten, the starch permitting it to escape as wards repeated the song at my request :fast as made.

The art of making bread, especially light bread, then, depends much upon diffusing the yeast through it equally, in other words, thoroughly kneading it. When that is done, the carbonic acid is generated in nearly equal quantities through the whole mass, the gluten retaining it so as to render the bread uniformly light.

When the yeast is diffused unequally through the mass, some portions of the dough are raised before others, leaving parts of it unraised, or heavy, while other parts are carried so far perhaps as to become sour.

The success of making bread, depends, perhaps, so much upon no one thing, as properly regulating the fermentation.

## MISCELLANEOUS.

#### THE ORPHANS.

I was staying, about ten years since, at a the sleeping child. I paused one instant, a kindly feeling to our fellow beings. attention was arrested by the young and husband of Mary. He was an extremely fine had seen in the cradie, was holding a light

SONG OF THE FISHER'S WIFE.

Rest, rest, thou gentle sea, Like a giant laid to sleep Rest, rest, when day shall flee, And the stars their bright watch keep; For his boat is on thy wave, And he must toil and roam, Till the flowing tide shall lave Our dear and happy home. Wake not, thou changeful sea. Wake not in wrath and power; Oh bear his bark to me, Ere the darksome midnight lower; For the heart will heave a sigh,

When the loved one's on the deep But when angry storms are nigh, What can Mary do,—but weep?

cottage. There was neither the reality nor the affectation of alarm. The instinctive good sense of the woman saw, at once that jects, is now ruined by having had its be use apprehension was a stranger to his bosom. ty praised and decorated. Our party had In two minutes our little party were all seatvillage. There was amongst us all the joy- teous fisherman. His daughter, for so we ousness of young hearts; and we laughed and soon learnt the young woman was, pressed sang, under an unclouded sky, 'as if the upon us their plain and unpretending cheer. A recollection of deep pleasure was however world would never grow old.' The evening Our fatigue vanished before the smiling associated with the neighborhood; and I surprised us at our merriment; and the night kindness of our welcome; while our spirits seized the first opportunity to visit the suddenly came on, cloudily, and foreboding mounted as the jug of sound and mellow ale hospitable cottage. a distant storm. We mistook our way,— refreshed our thirsty lips. The husband of As I approached the green lane which led and after an hour's wandering thro' narrow the young wife, the father of the cradled to the little cove, I felt a slight degree of and dimly-lighted lanes, found ourselves child, was, we found, absent at his nightly that agitation which generally attends the on the slingly beach. The tide was begin- toil. The old man seldom partook of this renewal of a long suspended intercourse ning to flow; but a large breadth of shore labour. 'His Mary's husband,' he said, I pictured Mary and several happy and encouraged us to proceed without apprehen- 'was an honest and generous fellow; an old healthy children; -her husband more grave sion, as we soon felt satisfied of the direc- fisherman who had, for five and forty years and careful in his deportment, embrowned, tion of our home. The ladies of our party, been roughing it, and, 'blow high, blow if not wrinkled, by constant toil;—the old however, began to weary; and we were all low,' never shrunk from his duty, had earned man perchance, gone to rest with the thouwell nigh exhausted, when we reached a the privilege of spending his quiet evenings in sands of happy and useful beings that leave little enclosure upon the margin of the sea, his chimney corner; he took care of the boats no trace of their path on earth. I came to where the road passed round a single cottage, and tackle, and George was a bold and the little garden: it was still neat; less de-There was a strong light within. I advanced lucky fellow, and did not want an old man's corated than formerly, but containing many alone, whilst my friends rested upon the seamanship. It was a happy day when a bed of useful plants, and several patches of paling of the garden. I looked, unobserved Mary married him, and God bless them and pretty flowers. As I approached the house through the rose-covered window. A deli- their dear child!' It was impossible for I paused with anxiety; but I heard the cate and graceful young woman was assi- any feeling heart not to join in this prayer, voices of childhood, and I was encouraged duously spinning; an infant lay cradled by We offered to pay for our refreshment, but to proceed. A scene of natural beauty was her side: and an elderly man, in the garb of this was steadily refused. The honest old before me. The sun was beginning to throw a fisherman, whose beautiful grey locks man put us into the nearest path; and we a deep and yellow lustre over the clouds flowed over his sturdy shoulders, was gazing closed a day of pleasure as such days ought and the sea; the old man sat upon a plot of with a face of benevolent happiness upon to be closed,—happy in ourselves, and with raised turf at the well known cottage door;

Cleanliness and comfort, almost approach- the fisherman's cottage. It was always the about three years old was climbing up her ing to taste, presided over the happy dwell- same abode of health, and cheerfulness, and grandfather's shoulders; another of seven ing. I was just going to knock, when my smiling industry. Once or twice I saw the or eight years, perhaps the very same girl I

they may be used for bread, can never be beautiful mother (for so I judged was the young mun, possessing all the frankness and raised so as to make light bread. In the female before me) singing a ballad, with a decision that belong to a life of adventure, process of fermentation in bread carbonic sweet voice and a most touching expression. with a love of domestic occupations, and an acidis formed, which is retained only by the I well recollect the words, for she after- unvarying gentleness that seemed to have grown in a higher station. But ease, and competency, and luxurious refinement, are not essential to humanize the heart. George had received a better education than a life of early toil usually allows. He had been captivated, when very young by the innocent graces of his Mary. He was now a father. All these circumstances had formed him for a tranquil course of duty and affection.— His snatches of leisure were passed in his little garden, or with his smiling infant.— His wife's whole being appeared wrapped up in his happiness. She loved him with a deep and confiding love; and if her hours of anxiety were not unfrequent, there were moments of ecstacy in their blameless existence, which made all peril and fear as a dim and forgotten dream.

Seven years had passed over me, with all The singing ceased; and I entered the its various changes. One of the ligh-hearted and innocent beings who rejoiced with me in the happiness of the fisherman's nest, as we were wont to call the smiling cottage, was delightful little watering place on the south- I was there for an honest purpose; and the no more. I had felt my own sorrows and ern coast, which, like many other pretty on- quiet composure of the old man showed that anxieties—ah! who has not: and I was in many respects a saddened man. I was tempted once more to my favourite waterwandered, one sunny afternoon to an inland ed by the side of the independent but cour- ing place. Its beauty was gone. I was impatient of its feverish noise and causeless hurry; and I was anxious to pass to quieter scenes.

a net was hung up to dry upon the rock beto look upon this cranquil scene. Every During my short residence at the village hind him; a dog reposed upon the same thing spoke of content and innocence.— I have described, I made several visits to bank as his master; one beautiful child of I saw neither the husband nor the wife.

grandsire's protection.

while he has an ocean grave!

# POPULAR SUPERSTITIONS.

Continued.

freaks of imagination. How often does he had for a moment labored." one wake up in the night and find the clothes in reality possesses.

illustration of this principle.

literary friend, to whom the deceased had ably to recede. The lady negan to feel ra- read unacquainted.

power which imagination has to transform merely a screen occupied by great coats, ances? ordinary things, and to call into existence, shawls, plaids, and such other articles as things which are not, is fully known. A are usually found in a country entrance hall. man who is thoroughly frightened, can im. The spectator returned to the spot from agine almost anything. The whistling of which he had seen the illusion, and endenthe wind, sounds in his ears like the cry of voured with all his power, to recall the imdying men. As he walks along trembling age which had been so singularly vivid .in the dark, the friendly guide-post is a But this was beyond his power. And the giant; the tree gently waving in the wind is person who had witnessed the apparition, a ghost; and every cow he chances to meet or more properly, whose excited state had is some fearful apparition from the land of been the means of raising it, had only to rehob-goblins. Who is there that cannot tes- turn into the apartment, and tell his voung tify from personal experience, of some such friend, under what a striking hallucination,

A lady was once passing through a wood, upon the chair, or some articles of furniture in the darkening twilight of a stormy evenin the room, assuming a distinctly defined ing, to visit a friend, who was watching form, altogether different from that which it over a dying child. The clouds were thick faires of France to the Minister for Foreign -the rain beginning to fall-darkness was Affairs. There is in imagination, a potency far ex- increasing—the wind was mouning mournceeding the fabled power of Aladdin's lamp, fully through the trees. The lady's heart ing at one o'clock. How often does one sit in wintry evening almost failed her as she saw that she had a musings, and trace in the glowing ombers, mile to walk through the woods, in the Duke of Treviso has resigned, and the the features of an absent friend. Imagina- gathering gloom. But the reflection of the King has sent for Marshal Soult, who is tion with its magic wand, will there build situation of her friend forbade her turning the city with its countless spires or mar-back. Excited and trembling, she called to Paris nothing will be settled definitely. shal contending armies-or drive the tempest to her aid a nervous resolution, and pressed All the other Ministers only hold office proshattered ship upon the ocean. The follow- onward. She had not proceed far, when visionally, and it is supposed that certainly ing story related by Scott, affords a good she beheld in the path before her the move- neither M. Thiers nor M. Guizot, to whom ment of some very indistinct object. It ap- Marshal Soult has a decided aversion, will Not long after the death of a late illuspeared to keep a little distance in advance form part of the new Administration. trious poet, who had filled while living, a of her, and as she made efforts to get nearer, great station in the eye of the public, a to see what it was, it seemed proportion-sitions, in our last number, line 16th for acquainted,

to the good old man, who was prepared to been well known, was engaged during the ther unpleasantly. There was some pale enjoy his evening pipe. He had evidently darkening twilight of an autumn evening, in white object, certainly discernable before been labouring in his business: his heavy perusing one of the publications, which pro- her, and it appeared mysteriously to float boots were yet upon his legs; and he up- tessed to detail the habits and opinions of along, at a regular distance, without any peared fatigued though not yet exhausted, the distinguished individual, who was now effort at motion. Notwithstanding the saw neither the husband nor the wife. no more. As the reader had enjoyed the lady's good sense and unusual resolution, a It was not long before I introduced my-intimacy of the deceased to a considerable cold chill began to come over her. She self to the 'ancient' fisherman. He remem- degree, he was deeply interested in the pub- made every effort to resist her fears, and bered me with some difficulty; but when I lication, which contained some particulars soon succeeded in drawing nearer the mystebrought to his mind the simple incidents of relating to himself and other friends. A rious object, when she was appalled at beour first meeting, and more especially his visitor was sitting in the apartment, who holding the features of her friend's child—daughter's song while I listened at the open- was also engaged in reading. Their sitting cold in death—wrapped in its shroud. She ed casement, he gave me his hand and burst room opened into an entrance hall rather gazed earnestly, and there it remained disinto tears. I soon had reason to compre- fantastically fitted up with articles of armor, tinct and clear before her eyes. She considerhend his sorrows and his blessings. Mary skins of wild animals and the like. It was ed it a monition, that her friend's child was and her husband were dead! Their two when laying down his book and passing into dead, and that she must hasten on to her orphan girls were dependent upon their this hall, through which the moon was be- aid. But there was the apparition directginning to shine, that the individual of ly in her path. She must pass it. Taking The 'Song of the Fisher's wife, was true whom I speak, saw right before him, in a up a little stick she forced herself along to in its forbodings to poor Mary: her brave standing posture, the exact representation the object, and behold some little animal husband perished in a night of storms.— of his departed friend, whose : ollection scampered away. It was this that her ex-Long did she bear up for the sake of her had been so strongly brought to his imagina- cited imagination had transformed into the children. But the worm had eaten into her tion. He stopped for a single moment, so corpse of an infant, in its winding sheet. heart; and she lies in the quiet church yard, as to notice the wonderful accuracy with The vision before her eyes was undoubtedly which fancy had impressed upon the bodily as clear, as the reality could have been .eye, the peculiarities of dress, and position Such is the power of imagination. If this of the illustrious poet. Sensible, however, lady, when she saw the corpse, had turned of the delusion, he felt no sentiment, save in terror, and fled home, what reasoning 2. We hear of many extraordinary ap- that of wonder, at the extraordinary accu- could ever have satisfied her, that she had pearances, which cannot be accounted for racy of the resemblance, and stepped on- not seen something supernatural! When from any known laws of matter, but which ward towards the figure, which resolved it- it is known that the imagination has such a may be easily explained from the known self as he approached into the various mate- power as this, can we longer wonder at any principles of the mind. The wonderful rials of which it was composed. These were accounts which are of unearthly appear-

To be Continued.

# WEEKLY MIRROR.

FRIDAY, APRIL 10, 1835.

The March Packet arrived on Tuesday last, bringing London papers to the 9th ult. Parliament was opened by His Majesty on the 19th Feb .- The House of Commons proceeded to the election of a Speaker .- Sir C. Sutton, and Mr. Ambercromby were proposed-at half-past six the House divided, when the numbers were for Mr. A. 316for Sir C. Sutton 306.

VIENNA, March 3.—'The Charge d'Af-

The Emperor of Austria died this morn-

The French Ministry is broken up. The at the foot of the Pyrenecs. Till his return

Correction .- In the piece headed . Popular Super-

# POETRY.

#### MAN.

Like as the damask rose you see, Or like the blossom on a tree, Or like the dainty flower in May, Or like the morning to the day, Or like the sun, or like the shade, Or like the gourd which Jonas had, Even such is man, whose thread is spun, Drawn out and cut, and so is done-The rose withers, the blossom blasteth, The flower fades, the morning hasteth, The sun sets, the shadow flies, The gourd consumes, and man he dies.

Like to the grass that's newly sprung, Or like a tale that's new begun, Or like the bird that's here to-day, Or like the pearled dew of May, Or like an hour, or like a span, Or like the singing of a swan; Even such is man, who lives by breath, Is here, now there, in life and death. The grass withers, the tale is ended, The bird is flown, the dew's ascended, The hour is short, the span not long, The swan's near death, man's life is done.

Like to the bubble in the brook, Or in a glass much like a look, Or like the shuttle in weaver's hand, Or like the writing on the sand, Or like a thought, or like a dream, Or like the gliding of the stream; Even such is man, who lives by breath, Is here, now there, in life and death! The bubble's out, the look's forgot, The shuttle's flung, the writings blot, The thought is past, the dream is gone, The water's glide, man's life is done.

Like to an arrow from the bow, Or like swift course of water-flow, Or like that time 'twixt flood and ebb. Or like the spider's tender web. Or like a race, or like a gaol, Or like the dealing of a dole, Even such is man, whose brittle state, Is always subject unto fate:

The arrow's shot, the flood soon spent, The time no time, the web soon rent, The race soon run, the gaol soon won, The dole soon dealt, man's life soon done.

Like to the lightning from the sky, Or like a post that quick doth hie, Or like a quaver in a song, Or like a journey three days long, Or like the snow when summer's come, Or like the pear, or like the plum; Even such is man, who heaps up sorrow, Lives but this day, and dies to-morrow. The lightning's past, the post must go,

The song is short, the journey so, The pear doth rot, the plum doth fall, The snow dissolves, and so must all.

# VARIETIES.

#### SELF-MADE MEN.

James Ferguson, the celebrated writer on humble condition of a day-laborer.

important elementary truths in mechanicsthe lever, and the wheel and axle. He afterwards hit upon others, without teacher or the wire thread, &c. which gave it shape. book, and with no tool but a simple turning lathe, and a little knife. stars at night.

remitted, as had been done in the cases of water, which changed it to purple. Newton and Thomas Simpson. George III. who, when a boy, was occasionally among the auditors of his public lectures, soon after his accession to the throne, gave him a pension of fifty pounds per annum from the privy of the greatest variety of substances? - What purse.

Mathematician, Professor of Mathematics in the ocean?—What are some of the most at Woolwich Academy, and fellow of the noted salt mines upon the earth?—Whick Royal Society, was the son of a weaver. have been longest wrought, those in Poland, After having acquired a very slight acquaint- or those in England ?—In what part of Euance with reading, he was placed in the shop rope are hills or mountains of salt ?-In what with his father. Instead of giving any en- state is salt found in Africa ?- Is rock salt couragement to his son's fondness for read- generally used in its natural state, or is it ing, the father after many reprimends, for- first dissolved and then evaporated?—To bade him even to open a book, and insisted what depth has the earth been perforated to upon his confining himself to his loom for procure salt water? - When salt springs are the whole day. He was finally banished found at a great distance beneath the earth, from his father's house, and compelled to is the water raised by pumps or by some inseek his fortune abroad. He contrived to ternal pressure? - By what process is commaintain himself for a while, in a neighbor- mon salt crystallized, by evaporation or by ing town, with a poor widow, by working at cooling?—How are glauber and epsom salts his trade, devoting his spare moments to his crystallized, by evaporation or by cooling! favourite employment of reading. whenever What is the definition of the term salt at he could borrow a book. In his twenty-fifth used in science? What common things is or twenty-sixth year, he went to London, the language of science are called oxids ?without a letter of recommendation, and with Why is the term oxid preferable to rust or scarcely any thing in his pocket, except a dross?-Which is most difficult to reduce nanuscript treatise of his own on Fluxions, to a metalic state. the oxid of iron, or of more valuable than any preceding treatise on lead?—What are examples of oxids of iron; the subject in the language.

William Hutton, author of the History of Birmingham, Fellow of the Antiquarian Society, &c. was the son of a working woolcomber at Derby. 'My poor mother,' says have all fasted a whole day; and when food payable in advance. arrived, she has suffered them with a tear,
Any person ordering six copies will be recken
to take her share. From his seventh to his to take her share.' From his seventh to his fourteenth year he worked in a silk mill- post paid. and was then bound as an apprentice to a Cards, Circulars, &c. &c. neatly printed stocking weaver in Nottingham.

#### EXPERIMENTS.

Many ladies ornament their rooms with flower baskets, urns, &c. made of crystals of alum, formed by their own hands as folastronomy, is one of the most remarkable lows,-They saturate with alum as much instances of self-education, which the lite- water, when boiling, as will cover the rary world has seen. His father was in the frame of the basket they wish to form. When removed and put into any vessel con-At the age of seven or eight, young Fer-venient for the occasion, and suffered to guson actually discovered two of the most cool, the article on which they wish the crystals to form is immersed in the water, and crystals of great beauty form all over

A lady took three or four leaves of red While he was reed- cabbage, and after bruising them, she poured ing his flock, in the employment of a neigh- a pint of boiling water upon them in a glass. boring farmer, he used to busy himself in After tea she placed three tumblers upon making models of mills, spinning wheels, the table, which she one half-filled with the &c during the day, and in studying the water infused with the cabbage. Into one she poured some vinegar; which turned it Before his death, he was elected a Tellow red; into another some pearlash water, and of the Royal Society; the usual fees being it became green; into the third some alum

# QUESTIONS ON COMMON THINGS, Nos. 5 and 6.

What part of our globe contains a mixture portion of the ocean, by weight, is common Thomas Simpson, a very able English salt? - What other useful salts are dissolved also of lead?

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