Scientific. svenni fon suo

nor have they any idea of the number of pieces by analysis, found to contain two distinct == of which it is composed. It is in fact one of classes of matter, viz: Organic and Inorgan- and most convenient, is to dissolve them in-The Age of Gold and the Age of Bronze ever produced. have give place to the Age of Iron. Iron is Mr. Dent, in a lecture before the London that which cannot ; i. e., the ashes of the tree been pretty thoroughly tested by others. The

your true agent of civilization. It is revolu- Royal Institute, made an allusion to the for- or plant. Soils, as well as plants, contain experiment below was given by the English tionizing the world. The iron rail and the mation of a watch, in which he stated that 23 these two classes of matter, or constituents. Agricultural Society Journal. The writer iron wires of the telegraph have already trades, and probably 215 persons are employ- Nature adapts the crop to the soil; as for in- says-I last year manured 5 acres with only brought towns so near to each other, that a ed in making one of those machines. country has now become but as one vast city. The iron of which the balance-spring is to swamps. Science teaches how to prepare of sulphuric acid and 159 gallons of water. And iron railroads are bringing countries formed is valued at something less than a far- the soil for the desired crop .- by analyzing After standing 24 hours the liquid was mixed nearer to each other, and binding them into thing; this produced an ounce of steel, is both; by saving, procuring and applying to with three cart-loads of coal ashes, and left to one common interest. We even hear of an worth 41d., which is drawnin to 2259 yards of the soil whatever it lacks in kind or quantity remain for a week, during which time it was iron bond of union between England and Cal-steel wire, and represents in the market 66 to supply food for a vigorous and perfect turned over two or three times. The cost cutta,-a railway stretching across Europe dollars.

bly see the Calais and Calcutta trains running. may be seen the mere labor bestowed upon a ous parts of the vegetable, may, by fermenta- whether they may not very easily be reduced Iron will form the road, and iron locomotives farthing worth of iron gives it the value of tion and otherwise, pass into the atmosphere ; in this manner by any person who desires to the fiery horses, to bear the iron carriages £846 5s., or \$4552, which is 75,880 times its or may be mostly saved by absorbents, and use them as a manure. freighted with their living loads along the original value.

extension of the Calais and Calcutta line to loss so. man Land

ieckt stall A Telegraph to America.

York and California Railway will then be a "great fact," for Yankees are no dreamers, but hard, practical, energetic workers, and gentlemen who first suggested and commenc- the 98 per cent. of organic matter, part of He piled up the bones into a heap, which he Asa Whitney's scheme will not remain long ed the formation of a telegraph across the which enters through the pores of expanding first moistened well with water, and then covupon paper only. But iron is also working Straits of Dover have expressed to some of our foliage, under which it is generated. away in other directions. Not to speak of eminent engineers and capitalists their convic- When a plant is burnt in an open vessel, saw-dust, by means of which not only were iron beadsteads and iron drawing room furui- tion of the feasibility of establishing a single the ashes, or inorganic part is found, by analy- the bones speedily converted into manure, but ture, we have iron steam-ships, iron tubular line of communication between this country sis, to contain ten constituents, whose names the saw-dust also. By this process, however, bridges, iron viaducts, and iron light houses. and America, for a less sum than was paid and properties must be given hereafter. Not the decomposition of much ammonia takes The Queen has just ordered an iron ball-room, to be constructed for her Highland country-seat at Balmoral. Then, have we It was proposed in this instance to have peated cropping, say of wheat or corn, some Some of the above, with many other valu-

tible. Hear what a writer in the Westmins- render it indestructible in salt water. Such will be weak and the grain will lodge. By New England Farmer. ter Review, commenting upon the Exhibition, a line, it is said, of gutta percha and prepar-says about a possible floating iron city :- ed hemp, would, although only about three- ing rattan, cane poles, or stiff straw, and burn-

Pekin, across the centre of Asia. The New

"Amid the models of vessels of all kinds, quarters of an inch in diameter, be of nearly ing some of it in a crucible, we obtain a "butwe miss the practicable future-an iron ocean double the strength of the experimental line ton of glass, which is silica and potash. steamer, of ten or more thousand tons burthen, laid down between England and France last Lancaster, Dec., 1851. B. W. that shall still the heave of the waves afloat, year in a strong sea and running tide. The as Plymouth Breakwater does on shore, and proposition was, first to extend it to Ireland; Mran

Steaming Bones.

make the salt-water the home of the Celt. thence to the south-west coast, the nearest GENTLEMEN .- Will you be kind enough to one foot deep.' The average vertical depth without the heaving of his diaphragm in sea point for the American continent and where give me some information regarding the kind to which roots descend into well disintegrated sickness; built of iron scantlings, that shall the bold rocky coast offers depths that secure of apparatus necessary to be attached to a soil, is thirty-four inches, and their length, as bear a proportion to its size, rolled and fash- its safety from anchors; and thence to the steam boiler, such as tanners use for steam- above stated, is often much greater; but the ioned by the dock side from the iron ingots, nearest point on the American coast, consider- ing hides; or, in other words, the kind of re- horizontal travel is occasionally very great, by tools of giants, one sole heat sufficing to ably under 2000 miles. Choosing the months ceiver (a.) to contain the bones, and receive and gradually deepening to thirty-four inches. give its permanent form in the structure; of summer and an experienced American and the steam. Also, the amount of steam pres- If a hill of corn be raised upon an artificial

The mode which seems to be the cheapest or dissipated by fire. The inorganic part is the shops. It was discovery by Liebig, and has stance, cedars, cranberries, sedges, flags, &c., 13 bushels of bone-dust dissolved in 270 lbs. growth of the plant, and to keep the soil, (10 was about \$3 per acre, and the crop much

and Asia Minor, rendering the distance in point of time between London and Calcutta, only one week! Nor is the proposal a mere chimera: it is a thing that will be realized, and in our day. Fourteen years will proba-2846 5s., the effect of labor alane. Thus it

be so fixed as not to evaporate; but in manure, Mr. Miles, of the Royal Agricultural Sogreat highway of civilization. We have yet Who could believe that the small article he applied to the soil, will be readily yielded to ciety of England, has discovered a process for seen but the beginning of the gigantic power carries in his pocket to denote the time of day, growing plants. The skilful farmer knows preparing bones for manure without the use of railways. The next generation may see an was the work of 215 persons? yet it is doubt- how to prepare his ground so as to admit the of acids; and, instead of sand, ashes, or earth, different gases, when returned to it, by dews h e uses saw-dust as the material for covering and rains, also, in the best possible state to up the heaps, double the amount of heat befeed his plants, whose innumerable mouths ing evolved, and the disintegration being ef-A Telegraph to America. feed his plants, whose innumerable mouths ing evolved, and the disintegration being ef-The Athenaum states that the same two are open to receive from nature's laboratory, fected much more rapidly and effectually. ered it over to a depth of 2 or 3 inches with

not seen the Iron and Crystal Palace of All only a single wire covered with gutta percha, of the constituents are greatly diminished, un- able facts, will be found in the American Nations? There was the iron-house, also similar to that used last year to prove the prac-less the full amount of each is returned to the Muck Book, of which we recently spoke, and built at Manchester, for the Sultan of Tur- tibility of passing an electric current across soil, the last crops will be proportionably less- to which we refer those who desire more parkey. We shall have iron cottages and furni- the Channel from England to France-to ened or imperfect. For example : one of these ticular information on the subject of bone ture of all kinds soon,-iron boats, iron stools, which it was proposed to add an additional inorganic constituents is Silica. Without manure. The subject is also ably described and iron crockery. The uses of the metal protection of hempen plat-the hemp having this, and potash, soda or lime, also, to render by Prof. Norton, in an article copied into the are endless, and its supply is almost inexhaus- been passed through a chemical solution, to it soluble by atmospheric influence, the straw Farmer, of the eleventh of October last .--

Deep Soil and Deep Roots.

A working farmer says, 'I have seen the roots of strawberries extend five feet down into a rich deep soil, and those plants bore a crop or'fruit five times, and twice as handsome and good as the common produce of the soil only ailt in sufficient compartments, that shall de- English captain accustomed to the track, such sure (b.) necessary to cause the boues to pul- knoll, formed of well disintegrated soil, and the roots so as not to abrade them, they will the stand in the stand

fy leakage though riddled as a colander; a line, it was averred, might with very simple verize easily. By answering the above ques- when ripe, the top of the stalk be fastened to a strong as Atlas to crush the rocks on which machinery be paid out night and day with tions you will confer a favor .- Cor. New Eng- gallows frame, and the earth be washed from it may strike; swift as the salt-sea shark, with perfect safety at the ordinary speed of the land Farmer.

artist fins of metal work ; laughing to scorn, steamer. The vast importance of such an ob-like an ocean monarch, the irate cachalot that ject is not to be weighed against a sum of resorted to in order to reduce bones to a pulp length, and many of them so fine as to be singsometimes sinks the whaler in his fury ; mock- £100,000, which, we are assured, would more or powder, so as to use them as a manure; ly invisible to the naked eye; but like the ultiing at fire, like the iron horse of the rail; than accomplish it if a single wire only were and they have been found so valuable as to mate fibres of silk, when several or conjoined, coated with rust-proof enamel; furnished with employed. The successful completion of one justify the erection of costly machines to re-apparatus to change the salt wave into the line would of course be speedily followed by duce them, where they were collected in large us, who can doubt the necessity of deep ploughmountain water; provided with iron cellars, that of others. This once accomplished, the quantities. But what is important to be known ing.

to arrest the decomposition of fresh food for extension of the line across the American is this :- where only a few bushels or barrels all time, furnished with hermetic gardens, continent to the Pacific would follow certain- of bones are collected during the year, what with machine music, with books, painting, ly, and we should have the astounding fact of is the cheapest and best way of reducing them, and sculpture-with warmth and coolness at a communication from the shores of the Paci- so that they become available as a manure? much better where this operation is thoroughly will-with armed strength to bid all ocean-fic, crossing America and the Atlantic, and There are various ways of accomplishing this, performed; and Dr. Bush, in a lecture upon rovers defiance-an ocean palace, moving over touching our shores in an instant of time.

the face of the waters whithersoever its ruler listeth. It were a worthy source of pride to be the builder of a craft like unto this."

Iron can do, and it does, still more than all this. It forms the sword and the ploughshare, the cannon and the printing press. It is the emblem of our civilization, such as it is. Man have built a house, or a ship, or an engine of worth of it by the want of it," will hail him It is set in masonwork, and arranged other- MILK CLEAN .- The first drawn milk conhammer and civilization go together, and By hammer and hand All arts do stand!

Walch-Making.

most people understand its use, but after all, then at the process of production.

The Farm. From the Watchman and Reflector.

brought into use by the farm operation.

ceiver that we have an account of, is con- the cow.

chine or implement of husbandry, with little form, six feet long and three feet four inches is worth two badly milked."

has been defined " a tool-making animal," and more knowledge of the principles of produc- in diameter. This is large enough to contain CURWEN, from three acres of grass, cut and all his tools are of iron. He could have dis- tion than the team employed by the scientific eight or nine hundred weight of bones. This fed to thirty milk cows 28 lbs. each day for peused with gold, or brass, or bronze; but farmer. The youth who wishes an agricultu- boiler has a false bottom, upon which the bones 200 days. Their health was excellent, and iron ! what were he without that ? Could he ral education, or the man who "knows the are laid, and the water for steaming is below. their milk superior.

any kind without it? Go into any of our busy as a friend and benefactor, who can and will, wise with regard to fire, smoke, &c., as ordi- tains only 5, the second 8, and fifth 17 per haunts of industry, and what is the sound that by his skill, improve the soil and the crops, nary boilers are.

meets your ears !- the clink of the hammer and will advocate and contribute to the cause (b.) In order to pulverize the bones thorough- KICKING .- If the milker will keep his nails on the anvil, the grinding of iron wheels, and of the popular education of the yeomanry. ly, they require the steam of 24 hours, kept short, not one cow in a hundred will kick. the roar of engines! It is iron that p esides We ought not to wait for legislative appropri-over the wealth and industry of nations. The ation and a model farm, (however desirable lbs. to a square inch. With this steaming large messes of milk in the winter season to farmers and farmers' sons,) to teach and they are easily crushed to a coarse powder as should give them warm drink. The extra learn the elements and application of the sci- they are taken from the boiler. It is mani- trouble will be more than repaid by the increas-

ence; but to be awake to the use of such fest this process will not answer for our farm- ed quantity of wilk. means as are available. We may begin as in ers generally.

Arithmetic, Grammar, and other sciences, by Another method, that of reducing them by will give down her milk more freely. Almost everybedy knows what a watch is, and looking at single parts of the structure and fermentation, we gave in the Farmer of the CREAM .- Do not milk so far from the dairy 7th of June and the 16th of August last, to as to let the milk cool before it is put in the very few are aware of its curious mechanism, Vegetables, including plants and trees, are, which the reader is referred. creaming dishes.

llints on the Treatment of Cows

CURRYING .- Cattle are well known to thrive but nearly all of them too expensive to be the advantages of studying the diseases of domestic animals, states that there is an improve-(a.) In reply to the first question of our ment in the quality of the milk, and an increase correspondent, we would say that, the only re- in its quantity, which are obtained by currying

Properties of Vegetable Matter. structed of the common boiler plate iron one-A man may apply his strength to the ma-eighth of an inch thick, made in the circular truth of the saying, that "one cow well milked

cent. of cream.

IN MILKING, be kind and soothing ; the cow