Scientificana la shand alo

The Caloric Ship Ericsson.

factory of Messrs. Hogg & Delamater, of this sting stands upon a pedestal, and this pedestal The remedy above stated may be of use to city, and had the privilege of inspecting Erics: performs the office both of a gland and a pois persons affected with it who have not conson's caloric engine of sixty horse power, while son bag. It is cellular and spongy within; the sulted a physician. it was in operation. It consists of two pairs sting is placed in its top, and may be moved of cylinders, the working pistous of which are by a light pressure to either side, or round in 72 inches in diameter. Its great peculiarities a circle; it seems to stand, as it were, on a consist in its very large cylinders and pistons, universal joint. When a body touches its working with very low pressure, and in the point, the base is pressed down into the sponabsence of boilers or heaters-there being no gy pedestal, and the poisonous fluid rushes up ther fires employed than those in small grates through the tube of the sting, and flows out under the bottoms of the working cylinders. of the terminal aperture.

" During the eight months that this test-engive has been in operation, not a cent has been expended for repairs or accidents. It is a beautiful and imposing object, and conveys the idea of power and symmetry much more impressively than the largest steam engine that I have ever seen.

"The leading principle of the caloric engine consists in producing motive power by the employment of the expansive force of the atmospheric air instead of that of steam, the force being produced by compression of the air in one part of the machine, and by its dilatation by the application of heat in another

The great advantages claimed for this improvement, are the saving in fuel, and its entire safety. A ship carrying the amount of coal that the Atlantic steamers now take for a single trip could cross and re-cross the At- of an animal destined to carry greater weights lantic twice without taking in coal, A slow radiating fire without flame is required, and this can be best supplied by our own anthra-An explosion cannot happen to the caloric engine-the only result from neglect will be the stoppage of the machinery. If these great desiderata are really found, and can be successfully applied, the world may look, for another revolution in ocean navigation equal

tons burthen, and will be ready for sea by Oc- gan eight feet in length! and the valve which lime should be applied. Lime will do very tober. The machinery is described as of the cevers it, and plays with electric swiftness well under the hay, but under the cattle plaster most perfect kind. The cylinders are 108 inches in diameter-72 inches larger than know, a very little thing; yet with the con-should also be scattered in the cellar often as

Galvaniz.d Iron.

Mr. R. Hunt, in the course of a lecture on mining, delivered at the London Institution, said, -" Considerable attention had been lately paid to the process of galvanizing iron, -a has been cured of a cancer by the following comfort of those animals to which they discovery which promises to be of the highest means. He procured a peck of cleaned oak bound to be merciful. utility. Mr. Nadsmyth, of Patricroft, near bark, by first cutting off the rough outside, Manchester, and Mr. Owen, two gentlemen and put it into a vessel containing about two the subject of metals, had lately been making fire until the coze became quite strong, when injure both the cattle and their food. experiments, the result of which would indi he strained it through a cloth to remove all cate that, by giving iron a coating of zinc, or the particles of the bark, then he put it into a, and ought in every way to consult its comfort. by combining zinc with iron in its manufact clean vessel, and simmered it over a slow fire. ture, it would be much improved, preserved till it came to the consistency of molasses from oxidizing, and rendered less brittle; and when it is fit for use. It is then spread upon that old plates of iron-such, for instance, as a piece of silk or other soft rag, and applied had been used for the bottoms of ships-with to the diseased part. He used about two plasan admixture of zinc, still possessed its original qualities; and, in fact, iron re-melted and the wound healed. He says it is not from such plates was found to be of a better painful, but believes it an infallible remedy. quality than at first. These experiments had, indeed, excited great attention to the important question, whether iron would not be im- MR. Epiron :- I saw in the last season's than it would cost to make an application of will bear a wash of ley. For apple trees, the change. Indeed, a piece made bright remain- good. I feel disposed to give you a recipe drought, and have been set out heedlessly, it up an egg. Such ley will make soap. ed so after being placed in water several of my own, which would have paid me eight produces a most striking effect, causing a cirmonths. The zinced iron, which was now years ago for five numbers of your paper in a culation of the sap at once astonishing. It ley. The bark of the pear, plum, peach and stance, the new Houses of Parliament—had as long as it feels good, then take wild salan- for its effect is almost immediate. It pene- bark of the apple tree.—Ibid. the quality of becoming incrusted with a coat dine, (some call it jewel weed,) crush it and trates the pores of the earth and comes in of oxide of zinc, which prevented any further rub it on until it smarts well, then go to bed, contact with the roots and fibres as soon as destructive effects from exposure to the at- and you will be ready for a good day's work an application is made; whereas, in applying

Why A Nettle Stings.

The common large nettle is known by Farmer. grievous experience to every one, though, perhaps, you have never yet inquired whence the pain arises from touching it. The sting is not, like a pin or needle, solid throughout;

fluid into the wound it makes, and this is the ly, and send for a surgeon and get a vein open-most astonishing results. An extraordinary source of the pain which follows. The wound ed, or fatal pressure on the brain may ensue. itself is so minute that it would scarcely be It was stated a short time since, that a ship felt, but the poison irritates, inflames, and "On Saturday I visited the engine manu- are the stings, while others are not. Each disease is very prevalent at the present time, to the liquid.

The foot of the ass is one of the most ingenious and unexampled species of mechanism in animal structure. The hoof contains a series of vertical and thin laminae of horn, so numerous as to amount to about five hundred and forming a complete lining to it. In this are fitted as many laminae belonging to the every spring is acted on in an oblique direction. Such is the contrivance for the safety

than those of his own body, and to carry those also under the hazard of heavy shocks.

The Human Voice.

How many singers are aware that they have an eight-feet organ pipe in their throat ? Savs writer in the Puritan Recorder:-

"How small is the diameter of the human to that produced by the application of steam. throat, and how short its measure! Yet, it The Ericsson is a beautiful model, 2200 will give the same note with the pipe of an or- hay is put on the floor a coating of plaster or those in the Collins steamers.—Boston Jour. traction and expansion of the throat, it will the manure is worked over. With these preutter a scale of seventeen degrees; and divide every whole tone into an hundred parts!"

Cure fir Cancer.

Vegetable Poisons. the next day. It may need a few applications coarse manure, such is not the case, it requi to the crop. Of this I became fully coarse

and the comments

Small Pox.

The Farm.

The following article, from the pen of one of the best Farmers in Plymouth County, is taken from The Old Colony Memorial, and is worthy of consideration:

Theatin BARN CELLARS. In 119-17

whether the many think there are any evils attending them, or any precautions necessary to protect stock and their food against unhealthy influences. The barn cellar is justly described as a favorable situation for composting manure; and in exact proportion to its coffin bone; while both sets are elastic and excellence for this purpose it will send forth adherent. The edge of a quire of paper in unhealthy influences to the animals and hay serted leaf by leaf into another will convey a situated over it. Would any man in the exsufficient idea of the arrangement. Thus the ercise of reason, direct a zinc spout into the weight of the animal is supported by as many cellar of his house, or doubt the injurious elastic springs as there are laminae in all the influences of the air thus produced on the feet, amounting to about four thousand; dis- health of the inhabitants, and on their provitributed in the most secure manner, since sions. Very similar cases to those such an arrangement would produce, are continually ascending from the bern cellar; the animals kept there may not be quite so sensitive as human beings, nor quite so particular concerning the purity of their food, but pure air and clean food are no less necessary to their health, than that of man. It may not be possible to construct a barn in such a manner that composting manure under it will not produce some injurious effects. Much evil, however, can be avoided with seasonable and suitable precautions. The flooring of the barn should be double and made tight as possible. Before (imitated by the reed of the organ) is, as all should be placed and often renewed. Plaster cautions the air of a barn with a cellar under it may be kept in a tolerably healthy state. And to this amount of labor, we suppose, all owners of barn cellars ought to submit, in A Mr. Benson, of Franklin county, Tenn., view of personal interest and the health and

> Pembroke, March 26th, 1852 It is the dictate of reason, that these " ga-

"A merciful man is merciful to his beast."

LIQUID MANURE FOR FRUIT TREES.

me that there is nothing connected with a perfection, until late in the fall. ly, which, if applied to the trunks and roots root. - Vermont Chronicle. of trees, would benefit them ten times more WASH FOR FRUIT TREES .- All fruit trees it out.

growth immediately commences and shoots are forced out in a few weeks, truly astoundwas building in New-York, to which a new causes the well known pain alluded to. The Dr. Field, of Wilmington, Del., says that soap suds and am convinced that they do not ing both in length and size. I have tried motive power was to be applied, viz., caloric. plant, the small species of which stings the one tablespoonful of good brewer's yeast, contain all the invigorating and enriching A New-York letter in the Transcript gives most severely, is covered all over with hairs; mixed with two tablespoonfuls of cold was powers common to liquid manure. It must some interesting particulars in regard to this but by using a microscope or magnifying ier, and given from three to four times a be acknowledged, however, that soap suds are new power, and the ship which is to be pro- glass, you may perceive that these are not all day to an adult, and in less quantities to efficient, causing a rapid growth when judiciof one kind, some being perforated, which children, is a cure for the small pox. This ously applied, but not equal in my opinion

TO RAISE CUCUMBERS OR SQUASHES.

Take a large barrel, or hogshead, saw it in two in the middle, and bury each half in the ground even with the top. Then take a small keg and bore a small hole in the bottom. Place the keg in the centre of the barel, the top even with the ground and fill in the barrel around the keg, with rich earth, suitable for the growth of cucumbers. -Plant your seed midway between the edges of the barrel and the keg, and make a kind of arbor MR. Eorron: Barn cellars have become a foot or two high for the vines to run on. common and so generally praised both by When the ground becomes dry, pour water in scientific and practical farmers, it is doubted the keg in the evening—it will pass out at the bottom of the keg into the barrel, and rise up to the roots of the vines and keep them moist and green. Cucumbers cultivated this way will grow to a great size, as they are made independent both of drought and wet weather -in wet weather the barrel can be covered, and in dry the ground can be kept moist by pouring water in the keg.

CURRANTS AND GOOSEBERRIES.

It is to be presumed that not one in a hunded understands the simple process of cultivating either currents or gooseberries, although it has been detailed in all the horticultural books with which the world abounds. Thousands of persons, with every appliance for success, are still content to live without a plentiful supply of these delicious, healthy, and cheap luxuries, merely because they have not thought of the matter. They have a few stinted bushes set in the grass, with threefourths of the stocks dead, and then wonder why they do not bear in abundance.

There is not a more beautiful shrub growing than the current, properly propagated. and the same may be said of the gooseberry. Cultivators who pay any attention to the subject, never allow the root to make but one stock, or, as the English say, " make them stand on one leg" -- thus forming a beautiful miniature tree. a saturate a worker off:

To do this you must take sprouts of last . year's growth, and cut out all the eyes, or buds, in the wood, leaving only two or three at the top; then push them about half the length of the cutting into mellow ground, where they will root, and run up a single stock, forming a beautiful symmetrical head. If you wish it higher, cut the eyes out again the second year. I have one six feet high. This places your fruit out of the way of hens, and connected with the government committee on gallons of water, which he boiled over a slow ses" if allowed to penetrate the building must prevents the gooseberry from mildewing, which often happens when the fruit lies on or near the ground, and is shaded by a superabundance of leaves and sprouts. It changes an unsightly bush, which cumbers and disfigures your garden, into an ornamental dwarf tree. The fruit is larger, and ripens better, It is a fact satisfactorily established with and will last on the bushes, by growing in

quid manure. Thousands of gallons of this -they start from between the bark and wood, invaluable fluid are wasted on farms annual- at the place where it was cut from the parent

proved by a small portion of zinc. Timned paper inquiries for what would cure vegetable the liquid. No one need apprehend any dan-rule is one pound of potash to a gallon of wairon, exposed to the atmosphere, very soon be- poison, and cures prescribed; some of one ger in applying it, for it bites not, nor does it ter. But all potash is not equally strong, came oxodized; but in iron protected by zinc thing and some of another, and one of buck-cause any serious derangement of the olfacto-therefore another rule is observed. Let not although exposed to all weathers, there was no wheat flour and vitriol, which is no doubt ry region. Where trees have been injured by the ley be stronger than enough to just bear

used in roofing large buildings—as, for in- single season. It is as follows:—First scratch is unquestionably preferable to solid manures, cherry, is more thin and tender, than the

HILLING CORN.—In cultivating Indian corn, I am confident that "hilling is a disadvantag afterwards, but not many. New England ring several showers to wash the strength of ced several years ago on contrasting its results with those of the opposing system, in a In Fits.

The manner in which I have applied it is field belonging to a friend. Since then I have If a person fall in one, let him remain on to dig a cavity around the body of the tree, instituted a variety of experiments, and have the ground, provided his face be pale, for and then fill up with the liquor. In a few found that the least surface is most eligible, should it be fainting or temporary suspension moments, it will be absorbed ready for repla- and that in all modifications of soil and tembut it is hollow at the centre, and perforated of the heart's action, you may cause death by cing the dirt, thus preventing evaporation. perature, corn which is not "hilled up" is the at the point; and when touched it is not only raising him upright or bleeding; but if the sharp enough to pierce the skin, but also is so constructed as to inject a particle of poisonous seat, throw cold water on his head immediate-