

the same day, if not, they should be left during marks as our readers expect us to make. the night in the oven; they should be kept in dry and clean bottles, and to each bottle of beans there should be added a bunch of dry savory. Before using the vegetables they should be steeped for some hours in tepid, or over night in cold water; if they are beans

the water is thrown away and they are cook-

ed in the usual manner, but if peas, they are

only just covered with the water, which will

be entirely absorbed, and they are cooked like

green peas. Vegetables prepared in this man-

ner are quite as good as if they had been just

" A is the regenerator, consisting of a cyhindrical vessel, closed at the ends by the plates, BB; through these plates a number of small the opposite end, equal in temperature with the caps, D and E, thus forming a -free communication between them, but not communicating with the body of the regenerator. A

number of division plates, b, divide the regecaps of the regenerator, such air will on the been taken up in the regenerator, and that the nerator into as many chambers, and these are one hand, find its way through the stope-pipes, office of the stove will be to give an addition-Coloring Black Scruples about becoming made to communicate with each other, by &c., into the top-part of the hot cylinder, and Subscriber. al quantity of heat to the circulating air, pre-I called on an individual, in this place, and on the other hand, through the connectingvious to its entering the hot cylinder, in order segments being cut out alternately from the advised him to subscribe for the Scientific to make up for a small deficiency which will tops and bottoms of the division plates. The pipe, Q, into the top-part of the cold cylinder. American, but he had doubts about becoming always be unavoidable in the transferring protubes, C, are also provided with division plates, Now, since the hot cylinder is larger, say a subscriber. He said, however, if you could or small metallic discs, placed in opposite didouble the size of the cold cylinder, it follows cess, besides the losses caused by radiation. tell him how to color a black on cotton and The power of the engine will mainly derections to each other. F is the working cythat the power of the piston, f, will vanquish wool, that is, a cotton white weft, and a woollinder of the engine, called the hot cylinder. pend on the density of the circulating medium, the power of the piston, g, and make it ascend, en white warp, without injuring the cloth, he -accordingly, by having a small pump at-G is a smaller cylinder, called the cold cylinat the same time itself descending: thus mowould then believe you understood your bution will be produced, and the crank-shaft beder, which receives the air that escapes from tached to the engine, the power and pressure siness, and would take your paper. I want to the former, and then forces it back again, for gin to revolve, and, by reversing the position may be varied at pleasure. High pressure be clearly understood: the cloth is white every stroke of the piston, thereby keeping up of the slide-valves, when the pistons have perwill, of course, produce the greatest proporcomposed of wool and cotton. The person I a constant circulation of the impelling medium formed their tull strokes, that motion will be tionate effect; since the losses, by radiation, speak of is a cloth manufacturer. J. T. and promoting a constant transfer of heat. continued. will remain the same under whatever pres-AITa, Canada West, Jan. 12th, 1 By further examining figure 1, it will be The pistons of the two cylinders are connect sure. · [We are not solicitous about the scrupulous ed by a beam, H, side-rods, and cross-heads, seen that the cold cylinder receives its sup-The trial engine, which has been erected by gentleman's patronage, but we can do the very similar to a common marine-engine, and the ply of air from the body of the regenerator the inventor, and the action of which has thing he wants. We know how to color a cylinders are provided with slide-valves, nearthrough the cooler, P, and the pipe, p, enterbeen found in every respect satisfactory, may piece of white goods, half cotton and half be fairly estimated at five horse-power ; it ly of the common construction, moved by ing under the slide valves, it will also be seen wool, a good black, and not injure the qualit suitable gear from eccentrics fixed on the that the hot-air from the hot cylinder escapes makes fifty-six revolutions per minute, having under the slide-valves, through the pipe, n, of the goods as much as if it were composed crank shaft, I. a break wheel fixed on the fly-wheel shaft, of cotton and wool dyed separately. We can into the body of the regenerator,-hence the loaded with upwards of five thousand pounds J is one of a series of pipes inclosed in a weight. The working cylinder is fourteen furnish practical receipts for doing this or any stove, K, acted upon by a fire, L, the combussame air that escapes from the hot cylinder other color whatever. tion being supported by ordinary draught, supplies the cold one. In like manner it will inches in diameter, and the cold cylinder ten caused to circulate round the regenerator, and be found, by referring to fig. 1, that the air and a quarter inches in diameter, both making A Golden Fashion. forced from the cold-cylinder into the cap, E, passing off from M, into a chimney. The eighteen inches stroke, working under a pres-The latest Paris fashion is powdering the pipe, J, in the stove, all terminate at one end, must pass through the pipes of the regenerasure of thirty-five pounds to the square inch. hair with gold dust and filings of silver. This tor, steve-pipes, &c., to supply the hot cylinin the cap, D, and at the other end in the pipe, The regenerator, in this trial engine, is eight fashion will suit California and Australia; but N, which communicates with the slide-box, der. inches and a half in diameter, and seven feet the expensiveness of the powder is likely to From what has been already said, the action six inches long, containing seven tubes, of two O, of the hot cylinder. P represents a cooler. speedily explode the fashion. and consi ts of one or more pipes, exposed to of the engine, and the transfer of the heat be-linches diameter each; and its operation is so

ded with a number of metallic discs.

Previous to describing the action of the engine, let us suppose that the stove with its pipes and the working .cylinder, have been brought to some considerable temperature, and likewise the regenerator with its tubes brought to the same temperature nearest to the stove, gradually lessening so as to be, at tubes, C, pass from end to end, terminating in the surrounding atmosphere. By examining the positions of the slide-valves, as represented in figure-1, it becomes evident that if air be, by some means, forced or pumped into the

Caloric Engine," accompanied with such re- longitudinal pipes in the regenerator, provi- only be briefly stated, that the hot-air, in escaping from the hot-cylinder, will, during its passage through the body of the regenerator, give out its heat to the tubes, C, being, by the peculiar arrangement of the division plates, b, compelled to ply round those tubes. And the cold air, coming from the cold cylinder, will, in its passage through the fubes, C, naturally take up the heat imparted to them, its particles being kept in a constant state of change by the small metallic discs. A transfer of heat being thus effected, it becomes evident that the office of the cooler will be that of carrying away any heat from the air which has not

Figure 1 is a longitudinal vertical section of Capt. Ericsson's first Caloric Engine, patented

in England in 1833, and described in Sir Richard Phillips' " Arts of Life," published the same year.

gathered .- [Genie Industriel.