## Science ant drtt.

The Art of Dyelnc -No. 27.
Botternot Brown-A very good cinnamon brown color is dyed with butternu bark and camwood, and many of our farmers' good-wives are well acquainted with th method, but to those who are not, the fol lowing will be usefnl :
For 24 yards of common home-made wool en cloth, put into a large clean kettle 3 lbs. of camwood, and 3 pecks of butternut bark, and allow them to boil for ten minutes; the cloth is then entered and boiled for one and a half hours. The cloth is then lifted, and two ounces of copperas placed in the kettle dissolved, and the froth skimmed off; the goods are then re-entered, boiled for half an hour, lifted out, washed and dried. By in creasing thequantity of these dye stuffs, and using more copperas for saddening, a darker brown will be produced. The butternut bark is used as a substitute for fustic, it makes a fast color, but does not give as rich a hue to the goods.

Hickory Bark,-By preparing woolen goods in an alum mordant of 4 ounces to the pound of wool, and washing the goods well afterwards, they can be dyed a beautiful brown by using hickory bark, butternut bark or yellow oak bark, as substitutes for fustic and pursuing the process above described Lombardy poplar bark or the leaves of the peach tree, mayalso be used for the same purpose and in the same way.
From almost every tree in our forests, by the use of an alum mordant or preparation, some camwood, and a little logwood (always saddening as described with copperas) every variety of brown shades may be dyed The easiest way, however, to dye good browns on woolen goods, is that described in the first receipt of last week's article.
Bronze Color-For ten pounds of woolen goods, use five pounds of logwood, one of camwood, and half a pound of alum. Boil
the goodsin the liquor for two hours, then lift them out and wash them well. Into an other clean kettle of boiling water, add five pounds of fustic; boil the goods in this for one hour, then lift, wash and dry.
Dari Claret Brown-For ten pounds of goods, use 8 lbs . of logwood, half a pound of crude tartar, as much of alum, and one gill of the muriate of tin. Boil the goods in this for one hour and a half, then lift and wash them well. Into another clean kettle of boiling water, place one pound of fustic, and halt a pound of crude tartar; enter the goods, boil for one hour, then lift and wash them, and they are ready for being dried. This color is subject to crock off, hence the last course described-boiling in fustic and tartar, is simply for the purpose of rendering them cleaner-some call it "setting the color.'
The muriate (chloride) of tin must never be used with camwood. It may, however, be employed as a preparation or mordant for camwood, like alum, but great care must be exercised to wash the goods before they receive the cam wood.

Brown Color on Cotron-There are various ways of dyeiug this color on cotton, all of which are different from that pursued for dyeing the eame color on silk and woolen goods.
Rich Bark Brown-The cotton is first dyed a deep yellow with quercitron bark, 3 lbs . to the 10 of goods, then washed, and then steeped in sumac for twelve hours, and afterwards mordanted in the red spirit tub for about two hours, receiving a preparation exactly as if for claret brown. About four pounds of peschwood and two of logwood are then boiled, and in this liquor the goods are handled for half an hour, and raised with some spirits. This is the only correct method of dyeing a rich bark brown on cotton. It is positively necessary that the goods should have the proper depth of yellow on them before they receive the redwood and logwood, and that they should be dyed a quickly as possible in the latter bath. It is exceedingly difficult to bring up bark browns to the proper shade if they fail in yellow.

The yellow color leaves the cotton-dissolves jections, B $d$, for the purposeand in the man off as it were-by long handling in either ner herein described. redwood or logwood liquors, hence the necessity for a certain depth of yellow as a base, and rapid handling in the finishing dye liquors.


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M. Pelouze, proposes to use an oily flui as a substitue for oil of turpentine in paint ing. He obtains this fluid, which boils from 100 to $168^{\circ}$ Centigrade, by the distillation of cannel coal, by means of superheated steam. This liquid is colorless, very fluid, and volatile, leaving no stain upon paper, and is not altered by exposure to light. It has a penetrating smell, which reminds one of common coal gas; but thisentirely disappears when it has evaporated. A number of comparative experiments having been made with the object of comparing it with oil of turpentine, by a committee of the Society $\mathrm{d}^{\prime}$ Encour agement of Paris, all of which resulted in showing that walls, woodwork, \&c,, painted with the essence of coal, dried far more ra pidly, and the smell disappeared sooner, than where essence of turpentine was employed For example, in one case where the coal ea sence and oil of turpentine were respectivel mixed with three times their volume of oil and employed under exactlysimilar circum stances, the smell of the essence of coal was completely dissipated at the end of three days, while that part painted with the turpentine mixture had a strong smell, and we not completely dry.-Bulletin de la Societ d'Encouragement.

## Treatment of Tomatoes.

During the early part of the growth of to matoes, the surface of the soil should be fre quently disturbed. When they have set their fruit they may be shortened, and it may be deferred until the fruit is of half size, when it may be readily observed that 90 per cent of the fruit is within 18 inches of the ground, while 90 per cent. of the vine or bush is beyond that distance. The vine, therefore should be trimmed to within half an inch o the tomato nearest the end of each branch This will admit sun and air freely, and although ten per cent. of the tomatoes that might have grown will be taken away, still the remain mearou if the vine had not been short entd in. Tomatoes are also several days earlier by this treatment.

## Yeast for Putrid Sore Throat.

The following relating to the cure of this terrible malady, is taken from $\mathcal{N e l s o n}$ 's $A m$ rican Lancet:-
"Boy 12 years old; all the symptoms o malignant sore throat, with eruption of th face and neck of a dark color; eruption ex tended over the whole body on the fourth day; symptoms of ulceration and typhoid fe ver; pulse small, thready, feeble and quick mind wandering and incessant muttering; inability to articulate intelligibly; alternate severe pains in the head and abdomen; little sensibility in the throat; small white gray spots throughout the mouth, tongue and fauces, and numerous petechix on the face and abdomen Ordered half a pint of fresh brewer's yeast, mixed with a half pint of water and brown sugar sufficient to flaver, one ta blespoonful to be taken every two hours gargle of borate of soda, honey, and infusion of sage; occasioual sinapisms to the throat Up to this time the fever and eruption had been regularly intermittent, coming on abou 2 in the morning, and subsiding about 12 m when the skin became quite smooth, and very slight signs of the eruption. Great chang had taken place the next morning; had rested tolerably well during the night; tongue and mouth nearly relieved and clean; feve and eruption quite moderate, and passed of before 9 o'clock; could eat with facility, and food was allowed him freely. He continued the yeast mixture for two days more, when all that was required to constitute him per fectly woll was strength."

## China Sea Grass.

China grass is an article which should be immediately introduced into the Uuited States. In China it is cultivated along the borders of rice fields. In Queen Elizabeth's time, clothes made of it were imported into

The claim of this invention is for the bnrr nut, $A$, or its equivalent in combination with the epring, $F$, operating upon the wedg principle (by the use of the screw,) the pro
flne fabrics to those made of flax. The tenacity is such that a thread may be spun one hundred and seventy-five feet long without winding. It is fifty per cent. stronger than flax. A thread over six miles in length weighed only a triffe over one thousand two hundred grains.
It has recently been discovered that young fry of salmon must remaintwoyears in fresh water before they migrate to the sea. It had been supposed that they only remained one year.
Delmonico's Hotel, in this city, is to beilluminated with Gesner's Kerosene Gas.

## LITERARY NOTICES.






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