Sprivg Ben Borron-Noah Warlick, of Chamber's
Court House, Ala.: I am aware that wooden slats have been used vith spiral apringe, and and theref ore do not
clain, broadly a 1 dirreepective of arrangement, such
device.


CThis jnvention consists in having the bed bottom
formed of a series of longitudinal wooden strips or slats, having their lower ende, or the ends at the foot of the bedstcad, permanently attached at equal distances apart, to a transverse bar, the slate at about their cen
ters beingattached to apringewhich reet on a trangverse bar attached permanently to the bedstead, and the upper ends of the slats attached to a strapwhich serves as a atap, the whole being arranged oo that a very elastic simple, and cheap bed bottom is obtained.]
 sequently itt tension in the manner set forth.
[The weight which assists in regulating the tension of the thread is so formed as to enable it to have an up-and-down.movement beside the vertical guide bar and the guide bar is surrounded above the weight by a
metallic block having a fianch at its side that projects over the ratchet teeth or notches formed on the top of the bobbin. The tbread is passed throngh an eye in
the upright guide bar near the bottom, thence under the upright guide bar near the bottom, thence under
the lower end of the weight and thence through an eye the lower end of the weight and thence through an eye
at the upper end of the guide bar to the object to be braided. By this means the diameter of the winding Dortion of the bobbin may be greatly reduced, and the
bobbin made to hold much more thread, and turned with much less friction thgn if the tension weight were arranged within a box at method.]






 position
ing iso claim the arrangement of the spring, connect-
ing orank, and stops, as deescribed, to operate the
bed and give the necessary dwell forthe impression.

debigna.
Hat And Cane STand-Edmard Reynolde, (assignor
to Thomas W. Brown), of Boston, Mabe. Coor's Stove-A. C. Barstow, of Providence, R. I. Soript Trps--James Conner, of New York City.
additional improviment.

 bolaimer.

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Inventrons Examined at the Patent Office, and advice given as to the patenta blity of inventions, before
the expense of an application is incur ed. This serthe expense of an application is incur ed. This service is carefully performed by Editors of this Journal,
through their Branch Office at Washington, for the smallf ec of $\$ 5$. A sketch and description of the insmallf ec of $\$ 5$. A sketch and description or the
vention only are wanted to cnable them to mak
examination. Addrees MUNN \& COMPANY, No. 128 Fulton street, New York.

## New Gelatinous Material.

It is announced in foreign papers that Professor Schetzer, of Zurich, in Switzerland, has discovered that a strong solution of the sulphate of copper into which an excess of ammonia has been poured, will dissolve cotton and convert it into a sort of gelatinous substance something like collodion.

A Cure for Scrofula.
The Cincinnati Commercial publishes the fol-
lowing communication from Nicholas Longworth, the great wine manufacturer of that city :-
"All the papers I had, giving the cure for scrofula, have been distributed to persons sending for the remedy. I have never heard of a case where it did not effect a speedy cure, and it can in no case do an injury. In several instances where it has been applied to old sores, it has also speedily cffected perfect cures. Put one ounce of aquafortis in a bowl or saucer; drop in it two copper cents-it will effervesce-leave the cents in; when the effervescence ceases, add two ounces of strong vinegar. The fluid will be a dark green color. It should and will smart. If too severe, put in a little rain water. Apply it to the sore, morning and evening, by a soft brush or rag. Before applying it, wash the sore with water. Its first application known to me was a poor girl, sent to our city from Memphis, to have her leg cut off, as it was feared she might not live long enough to have it cut off in that hot climate. She was reused admittance to the poorhouse, and was lying on the sidewalk, as she could not even stand up. From her knee to her foot onethird of the flesh was gone, and all the skin, except a strip about two inches wide. She was laid on a bed, and the remedy placed on a chair by it. She could rise up and apply it. In a few days her peace of mind returned, and she declared her leg was getting well. It was supposed it was a relief from the pain only; but when examined, fresh flesh was found growing, and skin over it. She was soon running about, and would work, which delayed the entire cure, leaving a small sore, which was, in a few mouths, entirely healed. A young girl with scrofula in her neck, leaving a large open hole, and deemed incurable, come one month after entirely cured, and recently married, with her husband, on their way to the east. I have never known a case where it did not effect a cure."

New Photographic Process.
In a communication to Cosmos, Professor M. Godefrey, of France, described the following method of obtaining photographs:-
Float a sheet of paper upon a bath composed of two ounces of nitrate of uranium and 120 grains nitrate of silver dissolved in three and a half ounces of water. The paper is permitted to remain thus situated for three minutes, and is afterwards dried in a dark place, and kept ready for operation. To take a picture, a sheet of paper thus prepared is placed in the camera in the usual manner; or if a copy from an engraving or another picture is to be taken, it is placed under the object to be copied, and exposed to the light. After this, it is immersed in a bath made up of 40 grains proto-sulphate of iron, 20 of tartaric acid, and a trace of sulphuric to every ounce of water. This bath rapidly develops the impression, and the paper is taken and simply washed in rain water which fixes it.
The sensibility of the paper increases with the quantity of the nitrate of uranium which may be employed. Paper thus prepared is very sensitive, and Professor Godefrey thinks it will yet supersede all other kinds now used in photography. By placing a sheet of it between the leaves of a book, and closing it for three hours, a copy of the printed matter will be obtained by immersing the paper in the developing bath, as has been described for taking other impressions.
It is a remarkable fact-and a recent dis-covery-that objects exposed to light for a certain period absorb or retain a portion of the luminous agency. This action is illustrated in obtaining a copy of a priated book in the manner described,

Acknowledgment.-We have to thank the Rev. Dr. J. Constantine Adamson for the Annual Report of the Council and Officers of the American Geographical and Statistical Society, for 1857

Enameling Iron.
A very simple method of coating iron with an enamel of glass is a desideratum. The following process, we are assured, is effective for securing this object, and is the cheapest and most simple which has yet been brought under our notice. The iron articles are first thoroughly scoured with sand and dilute acid, then washed and dried. Their surfaces are now covered with a thin coat of gum-arabic laid on with a brush, and over this the enamel powder is sifted, until all the surface is covered to a certain depth, according to the thickness of glaze desired. The articles are now put into an oven heated to $212^{\circ}$, and completely dried, after this they are put into a furnace, and raised to a red heat which melts the powder and it forms the glazed surface. They are now removed to a close chamber when they are allowed to cool slowly, and are then annealed.
The glazing powder for white enamel is composed of 130 parts of powdered flint glass, 20 of carbonate of soda, and 12 of borax. These substances are fused in a crucible and reduced to powder. Some glazes contain oxyd of lead ; they are dangerous to employ for culinary vessels, because, if acid is employed in cooking, it is liable to take up a portion of the lead, which is a poison. The enamel powder now described is perfectly safe, and can be applied to any articles of iron.

## Machine for making Shoe Pegs

Shoe pegs, small and insignificant as they appear and may be thought by some, are yet an important manufacture; and when we look at one, and see its excellent shape and perfect finish, we are surprised to learn that by the aid of machinery they are made with such rapidity as to be sold at almost the same price as oats,-per bushel. Azro Brown of West Waterford, Vt., has invented and patented, this week, an improvement in the machine used in their manufacture, which consists, first in cutting from a bolt or block of wood, thin slips, corresponding in size with the length and thickness of the pegs to be formed, and placing them into radial slots in an intermittent rotating plate, arranged between two other plates, or heads, on the faces of which, next each other, are found projections, whose inner edges are made eccentric, helical or spiral with the center. These latter operate upon the outer ends of the slips of wood, above and below the radial slots in the intermittent rotating plate and thereby force the whole series of strips of wood in the slots towards the center, at every motion of the rotating plate, the required distance to enable a peg to be cut from the end of all of them at every depression of a circular evolving knife. The required taper is previously given the pegs by stationary and revolving knives, and the several operations necessary to this end are performed by a simple compact and novel series of parts arranged in a suitable manner. The claim will be seen by referring to another page.

## Inprovement in Power Looms.

John Crawshaw, of Rochester, N. Y., has produced an improvement in power looms which consists, firstly, in certain means of controlling the take-up motion of a power loom, whereby its operation is rendered perfectly uniform; and secondly, in certain means of governing the let-off motion, whereby the amount of let-off is caused to be always in proportion to the amount of take-up. It was patented this week, and the claim will be found on anotber page.

## Georgia Prosperity.

The Macon (Ga.) Telegraph states that there are now 1,200 , miles of railroad in that State, all clear of debt, and paying 17 per cent of yearly dividends to the stockholders. The cotton crop of the present year will bring $\$ 21,000,000$, and factories and machine shops are multiplying with great rapidity.

To make Gold Powder and Lignid.
Gold Powder.-Take any quantity of gold leaf and grind it with pure honey by a "muller" till the metal is reduced to an impalpable condition. The mixture of gold and honey is then placed in a china mortar containing water, and thoroughly stirred. The contents are then allowed to settie, when the gold sinks to the bottom, while the honey being solub'e is taken up with the water and may be poured off. By several washings in this manner the honey will be completely separated and the gold left in the condition of a fine powder. By placing leaf gold in a mixture of nitric and muriatic acid in a glas vessel it will dissolve like sugar in water. By adding some copperas to this aqua regia, the gold will be separated and fall to the bottom in fine powder. The acid may then be poured off, and the gold powder washed in pure water, and dried. By triturating leaf gold with sulphate of potassa in crystals, then washing out the latter in boiling water, gold in powder is left behind. This powder is employed by artists for gilding, by mixing it with gum water.
Gold Liquid.-Into a solution of nitro-muriate ot gold pour an equal quantity of ether, then agitate them for half an hour and allow the contents to settle. The supernatant portion is then poured off, and is called "ether gold." Naptha and several of what are called the "essertial oils," such as that of lavender, rosemary, \&c., possess the same property as ether in taking up gold from its solutions Ether gold was at one period much used in medicines ; but it is now only moderately employed for writing on illuminated parchment and on polished steel. The ether rapidly evaporates, when this solution is put on paper and the gold remains adhering with considerable tenacity.

Gold Solder.-Take of pure gold 12 parts (by weight), silver 2, copper 4 ; and fuse them together. This alloy is employed by jewelers for soldering articles of gold.

## A Tall Chimney.

A chimney 256 feet in hight has recently been erected at the Charlestown (Mass.) Navy Yard, and it is the tallest smoke-pipe on this continent. There are two chimneys in the old world, however, which have a greater altitude; one of these is in Liverpool, and the other in Glasgow, both of which are over 400 feet in hight. A new one is about to be erected in the latter city, the hight of which is to be $\mathbf{4 5 6}$ feet; it will be the tallest in exis tence, capable of frowning down with a wellmerited conceit upon all its shorter companions. These tall chimneys belong to large chemical works, and their use is principally to carry up the noxious gases far above the adjacent honses, gardens and fields. Prior to their erection, these gases had injured the shrubbery and completely blasted the trees in the neighborhood.

## Bomb Lance for Killing Whale

A. F. and J. H. Andrews, of Hartford Conn., have invented and patented this week an improved bomb lance for killing whales. A cylindrical tube pointed at its front end, and having two smaller tubes placed one within the other, and fitted within it is used, the smallest tube being provided with a fuse and cup, and arranged so that the missile may be fired from a rifle, and the missile exploded either by the direct concussion of the discharge, or by the concussion produced by the missile entering the whale.

Soda from Salt.-M. Schlœesing has sought to obtain soda directly from common salt, by dissolving chloride of sodium in a solution of ammonia with an excess of carbonic acid under pressare, a reciprocal change occurs with the formation of bicarbonate of soda and chloride of ammonium. The former salt from its less solubility is deposited, separated and calcined to get the caxbonate.-Jour. de Pharms.

