## PATENT CLAIMS.

Owing to the interruption of the mail, our official list of patent claims was not received in time for this week's paper. We pint in place of them a very interesting account of the mines of Germany with their curious old superstitions about witch hazels, and other modes of finding treasure.

## To Treat Potatoes and Prevent Rot

The Country Gentleman states that a foreign farmer came to the conclusion last year that the potato rot was caused by a minute fungus, which commenced on the leaf, propagated with great rapidity, and washed into the tubers by rains. He tried the following experiment to prevent its injurious effects, and was very successful. He planted potatoes in double rows in stead of single, the two rows occupying about a foot in width, a foot of vacant space remaining on the out side of each row. They were planted upon the level ground, and hoed up at the usual time. When the tops had attained their full growth, about the first of July, he turned them over right and left toward the vacant spaces, by adding earth between the rows and pressing down the haulms, so as to prevent their retaining an erect position, and to allow the rain, in stead of descending to the roots, to run off upon the vacant space. The result was a most excellent crop, while other potatoes of the same species planted in the same field in the common way, turned out a complete failure. This system can be easily tried without involving extra labor or expense.

## Lofty Roofs for Photographic Rooms.

A correspondent of the Photographic New.s states that rooms with lofty ceilings-glass roofs-produce pictures very superior to those which have low reofs. He says:-" Above all things, have a lofty room, 10 or 12 feet high where the sitter stands, and then you may use almost direct light overhead, and yet you have it soft. Decidedly, have your glass to the floor, if you can, and let the sitter look at the north or northeast : your camera will then be in the south, and hare a good-sized box or screen to keep the direct light from the lens. My opinion is, that if the sitter is in direct sunlight, or rather in the direction of direct light (say south, southeast or west), no matter how your blinds are arranged, you cannot depend on soft pictures, and you are at the mercy of every passing cloud. In the other position, by a very little management, you can work without being annoyed with sunshine, at every period of the year, and all day long.

Soldiers' Underclothes.-On this subject, the Philadelphia Ledyer presents the following very timely remarks :-"We would remind all who are volunteer ing as soldiers, and their friends, that one great danger to which they will be exposed arises from the miasmata generated in low, swampy districts in Southern climates. Northern men cannot guard too carefully against the ravages of disease, induced, in most cases, by dressing too lightly or exposure to night air We are apt to imagine the planter in Virginia as being rigged out in a broad-brimmed hat and brown linen during the summer season; but not a few are in the habit of dressing in woolen clothes the whole year round, while the practice of wearing flannel underclothes is all but universal. Engineers and firemen are obliged to wear the same dress, and for a like reason. The profuse perspiration which flows through the pores, renders the body peculiarly liable to the dangerous effects of sudden chills, and flannel is the best preventive against these, as well as the attacks of the malarious influence.'

Sheet Zinc for Roofing.-A report of a committee appointed by the Central Society of Architects, in Paris, recommends "that zinc, which was at first rejected, but is now so generally used, should be applied with great care, as certain precautions, very simple, but never to be overlooked, are indispensable. Thus : contact with plaster, which contains a destruc tive salt, is to be avoided; also, contact with iron, which is very injurious, and liable to cause a rapid oxydation. Eave gutters should always be supported by galvanized brackets, and no gutter or sheet zinc should be laid on oak boards.

I. H. M., of N. Y.-We should suppose that the simpl way of expelling air from butter cans would be to fill tha wans by compression periectly full of butter, learing no room for the ait:yon ask forin relation to the will find the information which yonask orin relation to the cost, cc., of howiters, in the last an service, the infantry, the arillery, and the cavalry, has its specin serves, and no army is complete without them all.
f. H., of Ky.- "The Microscope and its Revelations," published by Blanchard $\&$ Lea, of Pliladelphia, contains the in from Hon you destre respecting the construction of the microscope
R. M., of Mich.-The only way to make the stamp heads or cast iron hard is to cast the metal in iron molds, sp as to chill harden the surface. Wolrram camant be obtained here. The hardest cat iron with which
in New Jerser.
C. D. S., of N. Y.- Brass is an alloy composed of copper and zinc. Its rate of expansion depends entirely upon the relatio quantities of the two metals of which it is firmed. It is dinicuit to Hind wo pieces of brass (if made in different establishments) that
 comm nin threal spool and spring back again. Its elasticity depend
cuntirely npon the temper given to to. S. F ., of Pa .-It is necessary, in laying railrond rails in winter, to leare a space between their ends to alluw them to nypand
in warm weather. A sphere is the strongest hollow body of a giren dilithe ter to resist pressure on all parts of the surface. Cruuchles ar made of plumbarso and of platinum.
R. B., of Mass.-The writer of this has seen men in Califiruia digging with spades into granite seven feet in thpth. The surfice of the granite there is being disintegrated from the decom position of the feldsplar. There is nothing in science better set tled tha the coluposition of water; it is composed of 1 pound of hyllongen selldon oltained in a state of purity. J. T. R., of N. Y.-A decoction of sumac, or dilute gallic acill will answer to prepare your writing paper, to prevent the suc cessful erasirue of writing. Paper prepared in this manner, if writh ten upon with ink comtaining the sulplate of iron, will show a da border around every lotter that has been erased with any of the at altering such writing can be detected. T. N. B., of Conn.-No electric engine can generate a cur rent of electricity sufficient to drive itself, and, at the same time,
have a surplus fordepositing metals. Such a motor woud be per have a surplus tor depositing metals. Such a motor would be per petnal motion, whis a mechanical impos
W. A. B., of Conn.-To color cotton red, steep it in a de coction of sumac for 10 hours, then take it out, squeeze the wate from it, and steep it for five hours in a solution of alum. After this, wash the cotton, squeeze and handle it in a hot decoction of red wood, when it will be dyed a good red color. Four pounds of re wood are required for 10 pounils of cotton.
W. M., of Mass.-An excess of sulphur and the addition of two-fifths of chlorate of potassa, to cummon powder will rende it very rapid of ignition. Powder for blasting in mines, containin a bout twenty-five per cent of chlorate of potassa, has been patented Its combustion is very perfect, but f $\boldsymbol{m}$ - rifed fire-arms and large can non, commonenarse powder is the safest and best. Hard coal may bed as a substitute for charcoal, in making powder, but it is no so good. Charcoal made of willow is the best for making gampor J. Y., of Pa.-In some of Sharpe's rifles, the breech-gate becomes so expanded by heat, after firing a few shots, that it is a most impossible to move it. This is not owing to any defect in the principle of the gate, but from imperfect workmanship. We hare now a Sharpe's rifle which never becomes stiff in working, however rapidly it may be fired, but it leaks a hittle at the breech. This could be aroided hy using a graduated and adjustable spring for pressing on the back of the breech-gate. This The has to be protected from rain, as the moisture io
J. C., of Pa .-In rifled cannon, the windage is generally filled with leaden bands. The only wad used in cannon is the flan nel hag of which the c:rtridge is made.
G.F. L., of N. Y.-Wood can be coppered by the electro plating process. It is covered with plumbago for the operation, a this is a good conductor
H. W., of Pa .-While petroleum oils may be very excel lent to prevent the surface of polished irou from oxydizing, wod not think they can erer supersede pure spermoil as a lubricator The heavy or "dead" coal oils are somewhat unctnons, but the lighter qualitiesare not; they are a s volatile as alcohol, and are no oils within the old meaning of the term.
. K., of Ohio.-The peroxyd of manganese has been usel for many years for rendering lusseed oil quick-drying. It is add slowly to the oil while the latter is boiling. About an ounce to the pint will be sufficient for your purpose. If yon desire to keep the oil as clear in color as possible, use the suiphate of zinc, or sugar if lead, for rendering it quick-drying. Litharge gives a dark brow color to the oil.
. H. N., of Mass.-Your plan for a camp bakery seems to be an excellen
graving of it?

## money Received

at the Scientiflc American Office on account of Paten Onlce busibess, for the weekending Saturday, May 4, 1861 : J. B. B., of Cal., $\mathbf{~ \$ 1 5 ; ~ S . ~ \& ~ A . , ~ o f ~ O h i o , ~} \$ 25$; C. R., of Vt., $\$ 30$; T. K. A., of N.Y., \$15; G. G. C., of Mich., \$25; L. S., of N. Y., \$40; J. G., of N. Y., $\$ 10$; C. T. P., of N. Y., $\$ 360$; J. F. H., of N. Y., $\$ 30$
C. $\&$ W., of Malne, $\$ 25$ : A. B. P.. of Cal., $\$ 25 ;$ K. \& B., of Cal.. $\$ 25$
J. S. S., of N. Y., $\$ 20$; R. B. N., of Cal., $\$ 150$; W. B., of N. J., $\$ 25$; P. R., of Iowa, \$22; C. \& W., of N. Y., \$12; G. S., of Iowa, \$15; T. L. P., of Mich., $\$ 25$; J. A. B., of Mich., $\$ 10$; W. Y., of N. Y., $\$ 25$; A. T., of N. Y., $\$ 15$; I. S. S., of N. Y., $\$ 10$; W. L. S., of Cal., $\$ 50$; W. \& T., of N. Y., $\$ 15$; I. S. S. of N. Y., $\$ 10 ;$ W. L. S., of Cal., $\$ 50 ;$ W. $\&$.
S., of Ohio, $\$ 15 ;$ G.. C. B., of N. Y., $\$ 20$ S. R. W., of N. Y., $\$ 15 ;$ H. A. H., of Mass., \$20; G. W. C., of Ga., \$25; D. B., of Mo., \$25; J
 A., of Inl., \$30; M. M. P., of Vit, \$15; W. F., of III., \$15; M. L. G., . III., \$15; J. G., of N. Y., \$15; S. E. A., of N. Y., \$25; M. G. C., of N.
Y., $\$ 20 ;$ A. W., of VL., $\$ 15 ;$ M. L.B., of N. Y., $\$ 20$ J. J. \& R., of N. Y., 1., $\$ 20$; A. W., of Y'., $\$ 15$; M. L. B., of N. Y.,
$\$ 20$; T. G., of Mich., $\$ 25$; W. W., of N. Y., $\$ 25$.

Specifications and drawings belonging to parties with the following inittals have been forwarded to the Patent Offle during the week ending May 4, 1861 :-
C. R., of Vt.; T. C. H., ofN. Y.; G. G. C., of Mich.; E. C., of N. Y.; G. L., of N. Y.; W. Y., of N. Y.; A. L., of Cal. ; M. G. C., of N. Y.; II. L. P., of Mich.; S. \&A., of Ohio; D. S., of Mass.; W. W., of N. Y.; J. G. W., of N. Y.; C. \& W., of Maine; L. S., of N. Y.; A. B. P.,
of Cai. ; S. A. B. of Conn.; C. \& W. H. R., of Mass.; A. A., of Ill.; of Cal.; S. A. B., of Conn.; C. \&W. H. R., of Mass. ; A. A., of III.;
J. B. B., of N. Y.; S. S. H., of N. Y.; C. \&W., of N. Y.; S.R. H., of D. B., of N. Y.; S. S. H., of N. Y.; C. \& W., of N. Y.; S.
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