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 print 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 outside 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, instead 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 News states that rooms with lofty ceilings-glass roofs-produce pictures very superior to those which have low roofs -" 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 have 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 Ledger presents the following very timely remarks :- "We would remind all who are volunteering 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 care fully 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 destructive 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.



- M. H. M., of N. Y.-We should suppose that the simple way of expellingair from butter cans uld be to fill the con pression perfectly full of butter, leaving no room for the air
- J. W. W., of N. H .- You will find the information which you ask for in relation to the cost, &c., of howitzers, in the last and present numbers of the Scientific AMERICAN. Each arm of the service, the infanty, the artillery, and the cavalry, has its special uses, and no army is complete without them all.

 G. H., of Ky.—"The Microscope and its Revelations,"
- published by Blanchard & Lea, of Philadelphia, contains the information you desire respecting the construction of the microscope.
- R.M., of Mich.-The only way to make the stamp heads of cast iron hard is to east the metal in iron molds, so as to chill-harden the surface. Wolfram cannot be obtained here. The hardest east iron with which we are acquainted is made from the Franklibite ore in New Jersey.
- C. D. S., of N. Y.-Brass is an alloy composed of copper and zinc. Its rate of expansion depends entirely upon the relative quantities of the two metals of which it is formed. It is difficult to find two pieces of brass (if made in different establishments) that will expand equally. Well-tempered spring wire will bend around a on thread spool and spring back again. Its elasticity depends by upon the temper given to it.
- S. F., of Pa .- It is necessary, in laying railroad rails in winter, to leave a space between their ends to allow them to expand in warm weather. A sphere is the strongest hollow body of a given in warm weather.

 diameter to resist pressure on all

 commbage and of platin ure on all parts of the surface. Crucibles are
- R. B., of Mass.-The writer of this has seen men in California digging with spades into granite seven feet in depth. The surface of the granite there is being disintegrated from the decom-position of the feldspar. There is nothing in science better settled than the composition of water; it is composed of 1 pound of hydrogen to 8.013 pounds of oxygen; but it is so powerful a solvent that it is om obtained in a state of purity.
- J. T. R., of N. Y .- A decoction of sumac, or dilute gallic acid will answer to prepare your writing paper, to prevent the suc-cessful erasure of writing. Paper prepared in this manner, if writ-ten upon with ink containing the sulphate of iron, will show a dark border around every letter that has been erased with any of the known chemicals used by counterfeiters, and thus fraudulent efforts at altering such writing can be detected.
- T. N. B., of Conn.—No electric engine can generate a current of electricity sufficient to drive itself, and, at the same time have a surplus for depositing metals. Such a motor would be per petual motion, which is a mechanical impossibility.
- W. A. B., of Conn.—To color cotton red, steep it in a decoction of sumac for 10 hours, then take it out, squeeze the water 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 redwood are required for 10 pounds of cotton.
- W. M., of Mass.-An excess of sulphur and the addition of two-fifths of chlorate of potassa, to common powder will render it very rapid of ignition. Powder for blasting in mines, containing out twenty-five per cent of chlorate of potassa, has been patented Its combustion is very perfect, but for rifled fire-arms and large can non, commoncoarse powder is the safest and best. Hard coal may be used as a substitute for charcoal, in making powder, but it is not so good. Charcoal made of willow is the best for making gunpow
- -In some of Sharpe's rifles, the breech-gate becomes so expanded by heat, after firing a few shots, that it is almost impossible to move it. This is not owing to any defect in the principle of the gate, but from imperfect workmanship. We have now a Sharpe's rifle which never becomes stiff in working, however rapidly it may be fired, but it leaks a little at the breech. This could avoided by using a graduated and adjustable spring for pressing on the back of the breech-gate. This rifle has to be protected from rain, as the moisture is liable to get into the charge.
- 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 bag of which the cortridge is made.
- G. F. L., of N. Y.—Wood can be coppered by the electroplating process. It is covered with plum this is a good conductor.
- H. W., of Pa.—While petroleum oils may be very excellent to prevent the surface of polished iron from oxydizing, we do not think they can ever supersede pure sperm oil as a lubricator. The heavy or "dead" coal oils are somewhat unctnous, but the lighter qualities are not; they are as volatile as alcohol, and are not oils within the old meaning of the term.
- . K., of Ohio.—The peroxyd of manganese has been used for many years for rendering luseed oil quick-drying. It is added slowly to the oil while the latter is boiling. About an ounce to the stowny to the on while the latter is boung. About an ounce to the pint will be sufficient for your purpose. If you desire to keep the oil as clear in color as possible, use the suiphate of zinc, or sugar of lead, for rendering it quick-drying. Litharge gives a dark brown
- E. H. N., of Mass.-Your plan for a camp bakery seems to be an excellent invention. What say you to our publishing an en graving of it?

Money Received

At the Scientific American Office on account of Patent Office husiness, for the weekending Saturday, May 4, 1861:-

J. B. B., of Cal., \$15; S. & A., of Ohio, \$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; S. J. G., of N. Y., \$10; C. T. P., of N. Y., \$360; J. F. H., of N. Y., \$30; C. & W., of Maine, \$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.
C. C., of N. Y., \$25; J. D. B., of N. Y., \$25; D. S., of Mass., \$25; H.
L. P., of Mich., \$25; J. A. B., of Mich., \$10; W. Y., of N. Y., \$25; A. L. P., of Mich, \$25; J. A. B., of Mich, \$10; W. Y., of N. Y., \$25; M. T., of N. Y., \$15; I. S. S., of N. Y., \$40; 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. G. W., of N. Y., \$100; C. & L., of N. Y., \$25; C. B., of N. Y., \$15; A. A., of Ill., \$30; M. M. P., of V., \$15; W. F., of Ill., \$15; M. L. G., of Ill., \$15; J. G., of N. Y., \$15; S. E. A., of N. Y., \$25; M. G. C., of N. Y., \$20; A. W., of V., \$15; M. L. B., of N. Y., \$20; J. & R., of N. Y. \$20; T. G., of Mich., \$25; W. W., of N. Y., \$25.

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending May 4, 1861:—

the week ending May 4, 1861:—
C. R., of Vi; T. C. H., of N. 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.;
H. 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 Cal.; S. A. B., of Conn.; C. & W. H. R., of Mass.; A. A., of Ill.;
J. D. B., of N. Y.; S. S. H., of N. Y.; C. & W., of N. Y.; S. R. H., of
N. Y.; S. E. A., of N. Y.; C. & L., of N. Y.; K. & B., of Cal.

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On filing each Caveat
On issuing each original Patent. \$20 On appeal to Commissioner of Patents. \$20
On application for Re-Issue\$30
On application for Extension of Patent \$50 On granting the Extension \$50
On filing Disclaimer
On filing application for Design, seven years

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on the above terms. During the last sixteen years, the business of procuring Patents for new inventions in the United States and all foreign countries has been conducted by Messrs, MUNN & CO., in connection with the publica-tion of the SCIENTIFIC AMERICAN; and as an evidence of the confidence reposed in our Agency by the Inventors throughout the country, we would state that we have acted as agents for more than FIFTEEN THOUSAND Inventors! In fact, the publishers of this paper have become identified with the whole brotherhood of Inventors and Patentees, at home and abroad. Thousands of Inventors for whom we have taken out Patents have addressed to us most flattering testimonials for the services we have rendered them, and the wealth which has inured to the Inventors whose Patents were secu this Office, and afterward illustrated in the SCIENTIFIC AMERICAN, would amount to many millions of dollars! We would state that we never had a more efficient corps of Draughtsmen and Specification Writers than are employed at present in our extensive Offices, and we are prepared to attend to Patent business of all kinds in the quickest time, and on the most liberal terms.

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Yours, very truly,

CHAS, MASO

CHAS. MASON,

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Very respectfully,
Your obedient servant,
J. HOLT.

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Your obedient servant, WM. D. BISHOP.

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ve may acquire of a similar invention from the records in our Ho Office. But for a fee of \$5, accompanied with a model or drawing and description, we have a special search made at the United States Paten Office, and a report setting forth the prospects of obtaining a Patent &c., made up and mailed to the Inventor, with a pamphlet, giving in structions for further proceedings. These preliminary examination are made through our Branch Office, corner of F and Seventh-streets Washington, by experienced and competent persons. Over 1,500 of these examinations were made last year through this Office, and as a measure of prudence and economy, we usually advise Inventors to have a preliminary examination made. Address MUNN & CO., No. 37

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