

novelty are carefully examined, and a written reply, corresponding with the facts, is promptly sent, free of charge. Address MUNN & CO., No. 37 Park Row, New York.

As an evidence of the confidence reposed in their Agency by inventors throughout the country, Messrs. MUNN & CO. would state that they have acted as agents for more than TWENTY 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 they have taken out patents have addressed to them most flattering testimonials for the services rendered them; and the wealth which has inured to the individuals whose patents were secured through this office, and afterwards illustrated in the SCIENTIFIC AMERICAN, would amount to many millions of dollars! Messrs. MUNN & CO. would state that they never had a more efficient corps of Draughtsmen and Specification Writers than those employed at present in their extensive offices, and that they are prepared to attend to patent business of all kinds in the quickest time and on the most liberal terms.

PRELIMINARY EXAMINATIONS AT THE PATENT OFFICE.

The service which Messrs. MUNN & CO. render gratuitously upon examining an invention does not extend to a search at the Patent Office, to see if a like invention has been presented there; but is an opinion based upon what knowledge they may acquire of a similar invention from the records in their Home Office. But for a fee of \$5, accompanied with a model, or drawing and description, they have a special search made at the United States Patent Office, and a report setting forth the prospects of obtaining a patent, &c., made up and mailed to the inventor, with a pamphlet, giving instructions for further proceedings. These preliminary examinations are made through the Branch Office of Messrs. MUNN & CO., corner of F and Seventh streets, Washington, by experienced and competent persons. Many thousands of such examinations have been made through this office, and it is a very wise course for every inventor to pursue. Address MUNN & CO., No. 37 Park Row, New York.

HOW TO MAKE AN APPLICATION FOR A PATENT.

Every applicant for a patent must furnish a model of his invention susceptible of one; or, if the invention is a chemical production, he must furnish samples of the ingredients of which his composition consists, for the Patent Office. These should be securely packed, the inventor's name marked on them, and sent, with the Government fees, by express. The express charge should be pre-paid. Small models from a distance can often be sent cheaper by mail. The safest way to remit money is by a draft on New York, payable to the order of Messrs. MUNN & CO. Persons who live in remote parts of the country can usually purchase drafts from their merchants on their New York correspondents; but, if not convenient to do so, there is but little risk in sending bank bills by mail, having the letter registered by the postmaster. Address MUNN & CO., No. 37 Park Row, New York.

Patents are now granted for SEVENTEEN years, and the Government fee required on filing an application for a patent is \$15. Other changes in the fees are also made as follows:—

On filing each caveat.....	\$10
On filing each application for a Patent, except for a design.....	\$15
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 a Disclaimer.....	\$10
On filing application for Design (three and a half years).....	\$10
On filing application for Design (seven years).....	\$15
On filing application for Design (fourteen years).....	\$30

The Patent Laws, enacted by Congress on the 2d of March, 1861 are now in full force, and prove to be of great benefit to all parties who are concerned in new inventions.

The law abolishes discrimination in fees required of foreigners, excepting natives of such countries as discriminate against citizens of the United States—thus allowing Austrian, French, Belgian, English, Russian, Spanish and all other foreigners, except the Canadians, to enjoy all the privileges of our patent system (except in cases of designs) on the above terms. Foreigners cannot secure their inventions by filing a caveat; to citizens only is this privilege accorded.

CAVEATS.

Persons desiring to file a caveat can have the papers prepared in the shortest time by sending a sketch and description of the invention. The Government fee for a caveat is \$10. A pamphlet of advice regarding applications for patents and caveats is furnished gratis, on application by mail. Address MUNN & CO., No. 37 Park Row, New York.

REJECTED APPLICATIONS.

Messrs. MUNN & CO. are prepared to undertake the investigation and prosecution of rejected cases, on reasonable terms. The close proximity of their Washington Agency to the Patent Office affords them rare opportunities for the examination and comparison of references, models, drawings, documents, &c. Their success in the prosecution of rejected cases has been very great. The principal portion of their charge is generally left dependent upon the final result.

All persons having rejected cases which they desire to have prosecuted, are invited to correspond with MUNN & CO., on the subject, giving a brief history of the case, inclosing the official letters, &c.

FOREIGN PATENTS.

Messrs. MUNN & CO. are very extensively engaged in the preparation and securing of patents in the various European countries. For the transaction of this business they have offices at Nos. 66 Chancery Lane, London; 29 Boulevard St. Martin, Paris; and 26 Rue des Eperonniers, Brussels. They thing they can safely say that THREE-FOURTHS of all the European Patents secured to American citizens are procured through their agency.

Inventors will do well to bear in mind that the English law does not limit the issue of patents to inventors. Any one can take out a patent there.

Circulars of information concerning the proper course to be pursued in obtaining patents in foreign countries through MUNN & CO'S Agency, the requirements of different Government Patent Offices, &c., may be had, gratis, upon application at the principal office, No. 37 Park Row, New York, or any of the branch offices.

SEARCHES OF THE RECORDS.

Having access to all the official records at Washington, pertaining to the sale and transfer of patents, MESSRS. MUNN & CO., are at all times ready to make examinations as to titles, ownership, or assignments of patents. Fees moderate.

INVITATION TO INVENTORS.

Inventors who come to New York should not fail to pay a visit to the extensive offices of MUNN & CO. They will find a large collection

of models (several hundred) of various inventions, which will afford them much interest. The whole establishment is one of great interest to inventors, and is undoubtedly the most spacious and best arranged in the world.

MUNN & CO. wish it to be distinctly understood that they do not speculate or traffic in patents, under any circumstances; but that they devote their whole time and energies to the interests of their clients.

COPIES OF PATENT CLAIMS.

MESSRS. MUNN & CO., having access to all the patents granted since the rebuilding of the Patent Office, after the fire of 1836, can furnish the claims of any patent granted since that date, for \$1.

THE VALIDITY OF PATENTS.

Persons who are about purchasing patent property, or patentees who are about erecting extensive works for manufacturing under their patents, should have their claims examined carefully by competent attorneys, to see if they are not likely to infringe some existing patent, before making large investments. Written opinions on the validity of patents, after careful examination into the facts, can be had for a reasonable remuneration. The price for such services is always settled upon in advance, after knowing the nature of the invention and being informed of the points on which an opinion is solicited. For further particulars address MUNN & CO., No. 37 Park Row, New York.

EXTENSION OF PATENTS.

Many valuable patents are annually expiring which might readily be extended, and if extended, might prove the source of wealth to their fortunate possessors. Messrs. MUNN & CO. are persuaded that very many patents are suffered to expire without any effort at extension, owing to want of proper information on the part of the patentees, their relatives or assigns, as to the law and the mode of procedure in order to obtain a renewed grant. Some of the most valuable grants now existing are *extended patents*. Patentees, or, if deceased, their heirs, may apply for the extension of patents, but should give ninety days' notice of their intention.

Patents may be extended and preliminary advice obtained, by consulting, or writing to, MUNN & CO., No. 37 Park Row, New York.

ASSIGNMENTS OF PATENTS.

The assignment of patents, and agreements between patentees and manufacturers, carefully prepared and placed upon the records at the Patent Office. Address MUNN & CO., at the Scientific American Patent Agency, No. 37 Park Row, New York.

UNCLAIMED MODELS.

Parties sending models to this office on which they decide not to apply for Letters Patent and which they wish preserved, will please to order them returned as early as possible. We cannot engage to retain models more than one year after their receipt, owing to their vast accumulation, and our lack of storage room. Parties, therefore, who wish to preserve their models should order them returned within one year after sending them to us, to insure their obtaining them. In case an application has been made for a patent the model is in deposit at the Patent office, and cannot be withdrawn.

It would require many columns to detail all the ways in which the inventor or Patentee may be served at our offices. We cordially invite all who have anything to do with patent property or inventions to call at our extensive offices, No. 37 Park Row, New York, where any questions regarding the rights of Patentees, will be cheerfully answered.

Communications and remittances by mail, and models by express (prepaid) should be addressed to MUNN & CO. No. 37 Park Row, New York.



F. N. B., of Wis.—Your plan for obtaining power by decomposing water by frictional electricity is met by this fatal objection, the power required to turn the machine would be at least a thousand times greater than the power of the expanding gases resulting from decomposition. Decomposition by electricity is in direct proportion to the quantity of electricity, and the quantity produced by a frictional machine is extremely small, though the intensity is very great. Faraday ascertained by direct experiment that the quantity of frictional electricity required to decompose one grain of water would be that furnished by 800,000 discharges of a battery of Leyden jars, exposing 3,500 square inches of surface charged with thirty turns of a powerful electrical machine.

H. N. B., of Conn.—If you can ascertain the facts in regard to the discovery of antimony in your neighborhood, a statement of them would be very acceptable. Or you might make a readable paragraph in relation to vermiculite, explaining its curious action on the fire. We regret that our space is too limited to permit the publication of your article.

S. J. E., of Ill.—You will find the calculations you require on page 105 of our last volume. We make no charge for them, but if we did it would be nearer \$20 than 20 cents.

W. M., of Pa.—Prof. Treadwell's statement is that the pipe of double length will sustain the pressure of double weight of steam from the same boiler; in other words, it will hold twice as much steam of the same density and pressure.

F. F., of Mass.—Steel is burnished, or glossed, as you express it, on fine buff wheels, that is, wheels covered with buckskin or chamois leather and charged with rouge or fine ferrous. We know of no method to put a fine blue on steel, except by the use of a sand bath.

T. J. W., of N. H.—Wire rope which is to be exposed to the weather is usually covered with asphaltum.

J. H. A., of Conn.—Gutta-percha is more costly than India-rubber. The solvents are the same for both gums, and rank about in the following order—the best being named first: bisulphide of carbon, chloroform, coal-tar naphtha, camphene, sulphuric ether, petroleum benzine, lamp oil. Lamp oil not being volatile cannot be separated from the solution, and therefore the gum can not be recovered from it. Neither of the gums is completely soluble after being vulcanized, though all of the solvents soften them.

E. G., of Kansas.—Every 33,000 pounds of water per minute falling one foot gives you one horsepower. Water weighs 62½ pounds to the cubic foot. To ascertain the power of a stream, therefore, measure the area of the cross section of your stream, multiply this in feet by the velocity in feet per minute, by 62½, and by the fall in feet, then divide the product by 33,000, for the horse-power.

J. P. N., of Pa.—For an answer to your question in regard to the manufacture of paper from wood, see communication on another page. The paper on which the SCIENTIFIC AMERICAN is printed has one-third of its substance of wood. Several processes for preparing the fiber have been patented.

H. L. C., of Cal.—For bichromate of ammonia or other chemicals write to Sebelfin Brothers, of this city.

N. Q. S., of Pa.—The best method of removing earth-work depends upon the kind of earth. If it is hard clay, the plan is to cut into the hill till you have a vertical face of considerable depth, when you cut narrow channels at the base and sides, leaving a lump projecting some three feet, and this is then broken off by means of crowbars at the top. There are machines for excavating loose sand, but they would not be economical in a depth of only twelve feet.

O. H. K., of N. Y.—Enamels are properly glass—slits plates of metallic oxides.

E. H. J., of R. I.—In order to prepare gun cotton for photographic uses you will do well to follow the directions given in Divine's Treatise or Fowler's Sunbeam, or any other good work upon the art.

S. G., of Conn.—Marine glue will hold the leather on your pulley. To make it, take four parts India-rubber, dissolve this in thirty-four parts coal-tar naphtha, warm, shaking it at the same time. Add to this sixty-four parts powdered shellac, which must be heated in the mixture until all are dissolved. When hot pour it all out on an iron plate in sheets, like leather. When wanted melt it in a pot like any other glue. Hilton's Insoluble Cement will also hold leather on iron, and will stand cold water but not hot. It is better to put three or four rivets in the wheel to help the cement. Leather can be fitted to valve seats by dove-tailing the seat, making the leather the width of the dovetail at the bottom, and crowding it in.

C. B., of Md.—At the great trial in Philadelphia Stevenson's turbine yielded 91 per cent of the power; this, so far as we know, is much more than has ever been yielded by an overshoot wheel. Mr. Stevenson's address is, J. E. Stevenson, No. 200 Broadway, New York. You will find illustrations of his and several other turbines in back numbers of the SCIENTIFIC AMERICAN, all of which are claimed by their owners to be the best in the market. Turbines are not stopped by back water.

H. B. S., of Ohio.—In some States it is necessary for a man to have a license to sell any thing. He must conform to the State laws in regard to vending.

E. H. S., of Pa.—That petroleum is of vegetable origin is not doubted, but the mode of its formation is mysterious. There is no reason to suppose that the deposits are influenced in any way by the thickness of coal beds in their vicinity. The coal field west of the Mississippi lies between the parallels 34° and 45° north latitude, and 14° and 20° west longitude from Washington.

W. B., of Mo.—You will find many articles on silver-plating in back numbers of this paper.

Money Received

At the Scientific American Office, on account of Patent Office business, from Wednesday, January 11, to Wednesday, January 18, 1866:—

P. W., of N. Y., \$25; H. B., of N. Y., \$35; J. L. K., of N. Y., \$35; J. S. L., of N. Y., \$25; A. R. J., of N. Y., \$25; E. F., of N. Y., \$25; S. O. R., of N. Y., \$25; J. F., of N. Y., \$25; H. B., of N. Y., \$25; H. H., of N. Y., \$25; R. B., of N. Y., \$120; S. B. H., of Pa., \$12; S. W. P., of Mass., \$50; H. C. K., of N. J., \$25; I. R., of N. Y., \$40; J. S., of N. Y., \$40; F. L., of N. Y., \$20; H. S., of N. Y., \$15; B. J., of N. J., \$20; J. W. N., of Conn., \$20; W. E. R., of N. Y., \$15; J. J. G., of Ohio, \$20; D. F. P., of Conn., \$40; I. M. R., of N. Y., \$40; E. R. W., of N. Y., \$15; J. A. M., of N. Y., \$20; H. C. K., of N. J., \$40; T. S. S., of N. Y., \$45; J. W. R., of N. Y., \$40; R. S., of N. Y., \$22; T. & J. B., of N. Y., \$15; C. C., of N. Y., \$20; H. W. W., of Pa., \$20; D. W., of Pa., \$20; J. W. H., of Iowa, \$15; F. W. F., of N. Y., \$20; O. H., of Ill., \$20; E. N. P., of Wis., \$22; C. L., of Ill., \$20; N. S. T., of N. Y., \$20; J. H. B., of N. J., \$20; W. D., of Cal., \$30; J. P. Jr., of N. Y., \$22; J. M. C., of U. S. A., \$15; J. W., of N. Y., \$20; J. Y., of N. Y., \$20; D. H. M., of Conn., \$40; G. W., of N. Y., \$30; R. D., of N. Y., \$40; P. C., of N. Y., \$40; B. B., of Pa., \$20; H. M. S., of Ohio, \$20; E. B., of N. Y., \$15; C. H. R., of N. Y., \$20; H. H. W., of N. Y., \$65; M. C. O' B., of Y. Y., \$10; H. L. H., of N. Y., \$10; J. H. H., of N. Y., \$15; G. A., of Mich., \$40; Von H. & A., of N. Y., \$15; F. S. P., of N. Y., \$15; R. E., of N. Y., \$16; R. & H. V. F., of Ind., \$35; J. K., of N. Y., \$15; F. W., of Wis., \$15; J. P. D., of Conn., \$15; W. J. T., of N. Y., \$15; F. J. C., of Pa., \$16; A. D. D., of Ill., \$15; H. F. B., of Mo., \$50; J. G. V., of Conn., \$35; O. H., of N. Y., \$333; E. A. H., of Del., \$50; T. W. B., of Mass., \$20; H. W., of Mich., \$25; F. A. S., of Mass., \$10; J. H. V., of Conn., \$30; J. P. E., of Ohio, \$25; C. B. R., of Conn., \$31; B. S. D., of Mass., \$15; J. W., of N. J., \$35; H. S. McK., of Pa., \$25; J. L. & S. L. O., of Mass., \$15; W. O. H., of N. J., \$16; G. H. S. D., of N. Y., \$100; S. S. S., of N. Y., \$15; E. C. G., of B. C., \$50; H. W. S., of Ohio, \$15; S. P., of Ohio, \$25; J. F., of Pa., \$16; J. N. S., of Pa., \$15; C. T., of Pa., \$15; A. & Dros., of Conn., \$16; J. S., of N. Y., \$16; J. H., of N. Y., \$25; P. M. R., of Cal., \$15; W. Z. S., of Nevada, \$25; J. H. J., of Ohio, \$45; M. J., of Pa., \$15; J. S. G., of Me., \$15; J. L. K., of Pa., \$15; J. R., of Mich., \$40; H. & M., of N. J., \$16; J. E., of Ill., \$15; T. V., of R. I., \$15; J. E. B., of Mass., \$35; C. E. B., of Mass., \$25; R. B. L., of Ohio, \$25; E. B., of Mass., \$15; D. G. H., of Mass., \$15; W. C. B., of Cal., \$45; L. S. S., of Mass., \$216; H. K., of Pa., \$25; M. & H., of Ill., \$33; J. S., of N. Y., \$15; A. J. P., of U. S. N., \$16.

Persons having remitted money to this office will please to examine the above list to see that their initials appear in it, and if they have not received an acknowledgment by mail, and their initials are not to be found in this list, they will please notify us immediately, stating the amount and how it was sent, whether by mail or express.

Specifications and drawings and models belonging to parties with the following initials have been forwarded to the Patent Office, from Wednesday, Jan. 11, to Wednesday, Jan. 18, 1865:

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PATENT FOOT-WARMER-WE OFFER AT A VERY low figure, for a short time, rights to some of the best States for our Foot-Warmer.

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THE OUNCE BOOT-JACK AND PANTALOONS GUARD.-I can show more bona-fide orders received in 4 weeks than any one else can for a similar article.

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MACHINERY, PORTABLE ENGINES, LATHES, Planers, Drills, Chucks and Machinists' Supplies, Cotton Gins, Portable Flour and Saw Mills, Steam Pumps, Rotary Pumps, Pores and Lifting Pumps of all kinds. Also all kinds of Oil-well Machinery, for sale by FAIRMAN & WILLARD, No. 8 Day street, New York. 5 2

A GASSIZ, BRYANT, HAWTHORNE, LONGFELLOW, HOLMES, WHITTIER, EMERSON, LOWELL, K. MARVEL, MES STOWE, BAYARD TAYLOR, GAIL HAMILTON, and many others of the first writers of America, are contributors to the ATLANTIC MONTHLY, published in Boston, and now in its eighth year.

IMPORTANT TO INVENTORS.-A GENTLEMAN having business with Foreign Governments, in connection with the use of a Valuable Patent, will take charge of other interests.

FOR SALE.-NINE MILLING MACHINES, OF light weight, well adapted to light brass work. Price \$150. Also two large Eastern Machines, one Putnam Slabbing Machine, one small Hand Lathe, Polishing Wheels and Countershafts.

COTTON GINS WANTED FOR EXPORTATION.-Address, with price and description, for ten days, H. F. S. 30 x 1469, New York. 5 3

WANTED-FOR THE STATES OF MASSACHUSETTS, Rhode Island and Connecticut. Manufacturers of the One-horse Mower, "Cayuga Chief" No. 4, which is perfectly adapted to the wants of New England Farmers.

FOR SALE.-NEWBURGH IRON AND BRASS Foundry, Machine and Blacksmith Shop, Tools, Patterns and the entire Fixtures are offered for sale at a bargain by the proprietor wishing to retire.

PATENT OFFICE AND EVERY VARIETY OF Working Models and Experimental Machinery; also Patterns of all kinds, made by V. GIROUD & CO., No. 191 Lewis street, office Davison, Stiles & Woolsey, No. 29 Broadway. 5 4

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STEAM DRYING APPARATUS FOR SALE.-A large machine, capable of drying perfectly from 40 to 50 bushels of Corn Meal, Grain or Malt per hour, with the escape steam of an engine.

STEAM BOILERS SET ON THE BEST PRINCIPLE to save fuel; Improved Fire Fronts and Indestructible Grate Bars for all kinds of boilers.

GIROUD'S PATENT MARINE CLOCKS AND REGISTERS, A so manufacturing of WaterGages. Steam and Vacuum Gages and Brass Work in general manufactory.

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- Uniform Coats, Infantry, standard. Artillery Jackets, do. Trousers, Infantry, do. Sack Coats, lined, do. Sack Coats, unlined, do. Shirts, Domestic Flannel, do. Drawers, Canton Flannel, do. Stockings, do. Boots, sewed and pegged, do. Boots, Cavalry, sewed and pegged, do. Blankets, India-rubber, do. Ponchos, India-rubber, do. Knapsacks, do. Canteens, do. Camp Kettles, do. Mess Pans, do. Axes, Felling, do. Pick Axes, do. Hatchets, do. Spades, do. Shovels, do. Garrison Flags, do. Tents, Hospital, do. Tents, Shelter, 8-oz. cotton duck, do. Great Coat Straps, do.

Further information may be had, and samples of the above articles may be seen, at the office of Army Clothing and Equipage.

Proposals must be accompanied by a guaranty, signed by at least two responsible persons, setting forth that if a contract is awarded to the party making the bid, that he or they will at once execute the contract, and give bonds for the proper fulfillment of the same.

FOR SALE.-ONE 10-HORSE AND ONE 5-HORSE Power Steam Engine. Address P. HOFFMANN, Dover, Pa. 4 2

CLOTHING BUREAU, QUARTERMASTER GENERAL'S OFFICE, } WASHINGTON, January 12, 1865. } ARMY SUPPLIES.-SEALED PROPOSALS WILL be received at the Office of Army Clothing and Equipage.

- Sack Coats, lined, army standard. Sack Coats, unlined, do. Blankets, India-rubber, for infantry, do. Knapsacks, complete, do. Hatchets, do. Uniform Hats, do. Hat Cords and Tassels, do. Camp Kettles, do. Mess Pans, do. Shelter Tents, do.

Each bid must be guaranteed by two responsible persons whose signatures must be appended to the guarantee, and certified to as being good and sufficient security for the amount involved, by some public functionary of the United States.

BIDDERS WILL STATE THE QUANTITY they propose to furnish, how soon they can commence, and the quantity they can deliver weekly.

FITZ'S CELEBRATED STEAM GONG CAN BE heard thirty miles. The best kind of an alarm. Its cost \$100 including valve.

TO STEAM PLOW BUILDERS.-I HAVE A NEW idea for a Motive Power for Steam Plows. Experiments so far very satisfactory.

SPOKE LATHES (BLANCHARD'S) OF AN IMPROVED pattern, made by J. GLEASON, No. 1,090 Germantown avenue, Philadelphia, Pa. 4 3

PLATINA PLATE AND WIRE IMPORTED BY SAMUEL S. WHITE, 688 Broadway New York. 2 4

FOR PATENT SCROLL SAWS, RAILWAY CUTTING-OFF SAWS, Splitting Saw Tables and Arbors, Edging Saws, &c., address J. A. FAY & CO., Cincinnati, Ohio. 3 17

HANCOCK'S PATENT STEAM BLOWER COMBINES all the advantages of the Fan Blower, and requires very little power to operate it. It is noiseless, occupies no space available for other purposes.

SOLID EMERY WHEELS, SILICATE OR VULCANITE, of every size, promptly made or shipped from stock.

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RULES FOR DESCRIBING VARIOUS KINDS OF PATTERNS USED BY TIN, SHEET-IRON AND COPPER-PLATE WORKERS; PRACTICAL GEOMETRY, MEASUREMENT OF SURFACES, AND SOLIDS, TABLES OF THE WEIGHTS OF METALS, LEAD PIPE, ETC., TABLES OF AREAS AND CIRCUMFERENCES OF CIRCLES.

COVERING OF CIRCULAR ROOFS. Two different Principles. To cover a Dome by the first Method. To cover a Dome by the second Method. To ascertain the Outline of a Course of covering to a Dome, without reference to a Section of the Dome.

TO DESCRIBE A PATTERN for a Tapering Square Article. To describe a Pattern for a Tapering Square Article. To describe a Pattern for a Tapering Square Article.

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THE ABOVE OR ANY OTHER of my Practical and Scientific Books sent by mail, free of postage, to any address.

ASSISTANT QUARTERMASTER'S OFFICE,) No. 18 ESTATE-ST. NEW YORK, Jan. 1, 1865. }

CAVALRY AND ARTILLERY HORSES WANTED.-I will purchase in open market all horses that may be presented and pass inspection at the Government stables on Thirty-fifth street, near Tenth avenue.

HYDRAULIC PRESSES.-TWO LARGE HYDRAULIC PRESSES, in good order, used heretofore in the manufacture of Adamantine Candles, for sale by E. SECCOMB, No. 101 Commercial street, Boston, Mass. 3 4

PLATINA-WHOLESALE AND RETAIL-FOR ALL purposes. H. M. RAYNOR, Importer, No. 748 Broadway, New York. Platinn Scrap of any sort purchased. 3 2

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FOR SALE.-AN INTEREST IN AN EXTENSIVE. well-established Hardware Manufacturing Business, located on a Water Power and Railroad, 38 miles from Chicago.

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PROPOSALS FOR ICE.

MEDICAL PURVEYOR'S OFFICE, WASHINGTON, D. C. Sealed Proposals will be received at this Office until January 25, 1866, for furnishing ICE to the Medical Department of the Army, at the points herein designated.

The proposals will be made for the quantities indicated below as required at the respective places, with the proviso that should more be needed at any time for the year's supply, it shall be furnished at the same rates and under the same conditions.

Table listing ice-house quantities for various locations: Annapolis, Md., 150 tons; Point Lookout, Md., 200 tons; Fort Monroe, Va., 200 tons; Portsmouth, Va., 400 tons; Newbern, N. C., 400 tons; Hilton Head, S. C., 450 tons; Beaufort, S. C., 300 tons; Savannah, Ga., 400 tons; Pensacola, Fla., 100 tons; Mobile Bay, Ala., 100 tons; New Orleans, La., 500 tons.

All additional amounts that may be required at these places until January 1, 1866, are to be furnished at the same rates.

FORM OF PROPOSAL. The undersigned proposes to furnish _____ tons of first quality Ice, carefully packed in substantial ice-houses, at the within-named points, namely: _____ at the following price per ton of two thousand pounds, namely: _____

The ice to be subject to the inspection, measurement and approval of a Medical Officer, or other properly-appointed inspector, before being accepted for use.

Payment to be made from time to time upon duplicate bills certified to by the Medical Director. (Signed) _____

FORM OF PROPOSAL. The undersigned proposes to furnish daily, or otherwise, all the ice required for the hospitals, upon approved regulations for surgeons in charge, at or near the within-named points, at the following price per hundred pounds, namely: _____ cents per hundred pounds.

The ice shall be of the best quality, and subject to the approval of the Surgeon in charge, who shall receipt for the actual amount delivered at each hospital.

Payment to be made from time to time upon duplicate bills, certified to by the Medical Director. (Signed) _____

The above form of proposals will be adhered to as closely as practicable. Other forms will be received by the Department and duly considered.

A proper guarantee that the bidder is able to fulfill the contract, certified to by the Clerk of the nearest District Court, or a United States District Attorney, must accompany the proposal, or it will be rejected.

An oath of allegiance to the United States Government must also accompany the proposal.

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A VALUABLE WORK FOR INVENTORS PATENTEEES AND MANUFACTURERS.

The publishers of the SCIENTIFIC AMERICAN have just prepared with much care, a pamphlet of information about Patents and the Patent Laws, which ought to be in the hands of every inventor and patentee, and also of manufacturers who use patented inventions.

The complete Patent Law Amendment Act of 1861—Practical Instructions to Inventors, how to obtain Letters Patent, also about Models—Designs—Caveats—Trade-marks—Assignments—Revenue Tax—Extensions—Interferences—Infringements—Appeals—Rescuses of Defective Patents—Validity of Patents—Abandonment of Inventions—Best Mode of introducing them—Importance of the Specification—Who are entitled to Patents—What will prevent the granting of a Patent—Patents in Canada and European Patents—Schedule of Patent Fees; also a variety of miscellaneous items on patent law questions.

It has been the design of the publishers to not only furnish, in convenient form for presentation, a synopsis of the PATENT LAW and PRACTICE, but to answer a great variety of questions which have been put to them from time to time during their practice of upwards of twenty years, which replies are not accessible in any other form.

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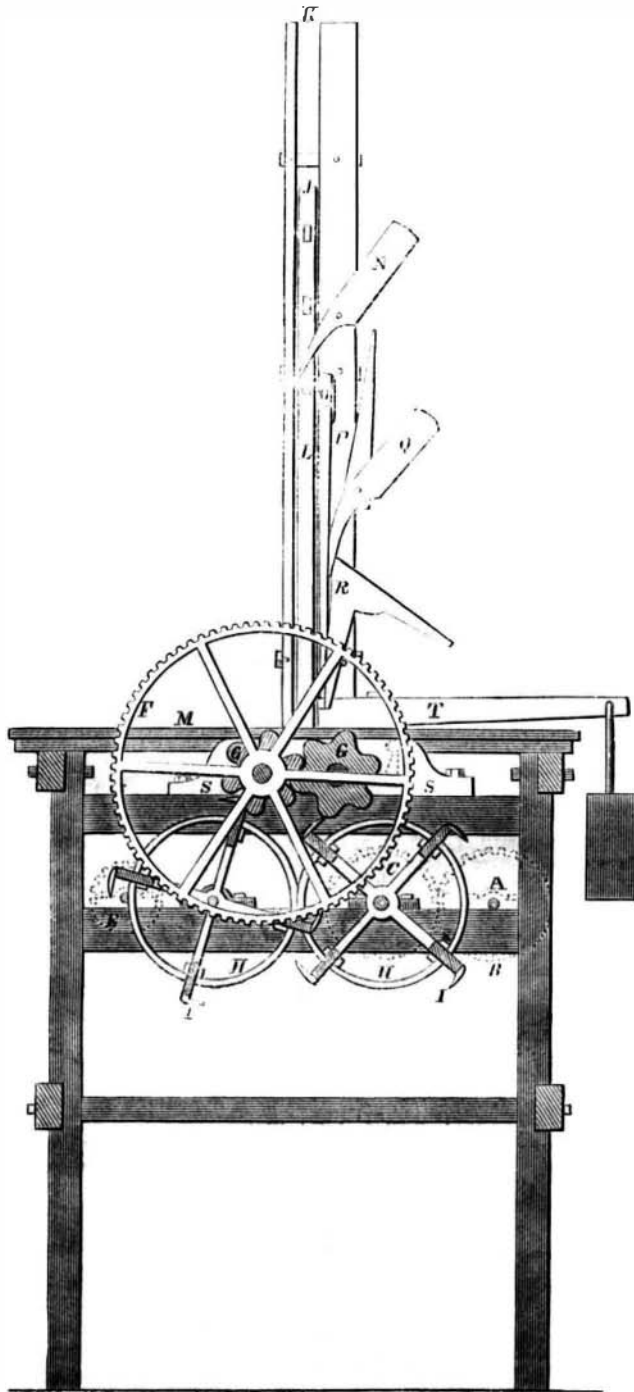
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Zur Beachtung für deutsche Erfinder. Die Unterschieden haben eine Einleitung, die Erfinder das Verhätten angibt, um ihre Patente zu sichern, herauszugeben, und betreffen solche gratis an zu liefern.

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Improved Hemp and Flax Dresser.

This machine is intended to facilitate dressing hemp and flax, and is thus described by the inventor. As the manufacture of linen goods is rapidly increasing in this country, anything tending to facilitate the preparation of the material will be a valuable acquisition. The description will render the details intelligible to all:

**HOWARD'S HEMP AND FLAX DRESSER.**

A is a shaft to which the power is applied through two pulleys, and a gear, B, shown by a dotted circle on the frame. C is a corresponding gear attached to the end of the shaft of the dresser; it is also shown by a dotted circle. E is a cog-wheel, on the shaft of which is a friction clutch; the wheel is geared into the large wheel, F. G G are two fluted rollers, and H H are dressers made with floats, armed with hatchel teeth, I, on the edges. There is a clamp, not shown, in which the hemp is placed and laid in the top of the frame at K, resting upon the upper catch, J, on the rack, L. From thence it is drawn down to the table, M. The hemp passing between the fluted rollers is crushed and broken, and in passing down between the dressers is dressed also. The rotary motion of the rollers is then reversed by the operator with the lever attached to the friction clutch, before mentioned, carrying the clamp up to the dog, N, passing it over the top of the vibrating board, O, into the groove, P, and pressing the board to the opposite side of the rack, L. The butts of the hemp fall directly between the rollers. Their motion being again reversed, the flax is drawn

down and dressed. Another reverse of the rollers carries the clamp up to the dog, Q, and throws it out over the frame R. S is a cast iron housing containing one movable box. T T is a lever and weight used to give the desired pressure upon the movable box. This invention was patented through the Scientific American Patent Agency by C. G. Howard, of Topeka, Kansas, on Sept. 6th, 1864, and assigned

to C. G. Howard and E. A. Goodell. For further information address them as above.

Patent Laws in England.

The subject of protection for inventions, in the shape of patents, has been much discussed in England lately, and divers opinions have been given as to the expediency of so encouraging inventors. A royal commission, appointed by authority, have recently deliberated upon the subject in question, and have arrived at the following conclusions:—"1. That the present system of obtaining and paying for letters patent ought to be maintained, but that patent fees should not be made to contribute to the general expenditure of the State until every reasonable requirement of the Patent Office had been satisfied. 2. That the patent be granted if it be found after examination that there has been no previous documental publication of the invention; but that no investigation be entered into concerning its merits. 3. That one of the judges should sit for the trial of patent cases exclusively; that he should be aided by scientific assessors; should sit without a jury unless the

parties to the suit or action desire a jury, and, when sitting without a jury, that he should decide questions of fact as well as law. 4. that the granting of licences to use patented inventions ought not to be made compulsory. 5. That patents ought not to be granted to importers of foreign inventions. 6. That no patent should be extended beyond the original term of fourteen years. 7. That the Crown should be empowered to use patented inventions without having obtained the consent of the patentees, and should pay him for such use a sum to be fixed by the Treasury.

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this latter department being very full and of great value to Farmers and Gardeners; articles embracing every department of Popular Science, which everybody can understand.

PATENT LAW DECISIONS AND DISCUSSIONS

will, as heretofore, form a prominent feature. Owing to the very large experience of the publishers, Messrs. MUNN & CO., as **SOLICITORS OF PATENTS**, this department of the paper will possess great interest to **PATENTEES AND INVENTORS**.

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