

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

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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 assignment of patents. Fees moderate.

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.

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 think 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.

Pamphlets 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.

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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.

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C. A. C., of Ind.—Doubtless by advertising in the SCIENTIFIC AMERICAN you can procure the article you desire.

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J. C. A., of Mass.—If petroleum be subjected to sufficiently high temperature it will doubtless undergo destructive distillation, and be converted, in whole or in part into permanent gases. If the heat were great enough to convert it all into strictly permanent gases, we should suppose a large proportion would be marsh gas, and that the illuminating power of the oil would be diminished.

E. L., of N. J.—Any alcohol may be converted into vinegar by the quick process; vinegars retain the flavors of the grains or fruits from which they are made, but these flavors may be removed by filtering through charcoal. Prof. Everett, who has had a great deal of practice with the blow-pipe, says he likes the flame of a broad-wicked paraffine candle best of any; better even than that of an alcohol lamp. Magnetizing locomotive wheels has been tried on the New Jersey Central Railroad.

E. L. A., of Conn.—Probably, the reason that your india-rubber would not dissolve in chloroform was that you tried vulcanized rubber.

E. G. F., of N. Y.—You can detect petroleum in springs with perfect ease and certainty by the smell.

H. C. E., of Mass.—To make 12 gallons of black ink, take 12 pounds of nutgalls, 5 pounds of green sulphate of iron, 5 pounds of gum senegal, and 12 gallons of water. Boil the nutgalls three hours, adding water for the evaporation; dissolve the gum in a little hot water and add it to the solution. See fuller directions on page 327, Vol. XI.

S. S. B., of N. Y.—You will shortly see an engraving of a steam carriage for common roads illustrated in the SCIENTIFIC AMERICAN.

A. D., of N. Y.—You will find a recipe for blue ink on page 250, last volume, SCIENTIFIC AMERICAN. We cannot publish the same thing over and over again.

J. F., of N. Y.—Address Solon Robinson, New York, for a work on farming.

A. H. Y., of Conn.—It is the common notion that the body of a drowned person may be raised to the surface by firing a cannon, but we never met with any evidence that there is any foundation for the opinion.

T. S., of Ky.—Cray hair may be dyed black by a preparation of nitrate of silver, or one of ammonia nitrate of silver. It would be better for you to buy the preparation of a druggist than to attempt to make it.

H. L. W., of Mass.—Find full directions for making transfer paper on page 341, Vol. XII., new series.

TO OUR READERS.

PATENT CLAIMS.—Persons desiring the claim of any invention which has been patented within thirty years, can obtain a copy by addressing a note to this office, stating the name of the patentee and date of patent, when known, and enclosing \$1 as fee for copying. We can also furnish a sketch of any patented machine issued since 1853, to accompany the claim, on receipt of \$2. Address MUNN & CO., Patent Solicitors, No. 37 Park Row, New York.

INVARIABLE RULE.—It is an established rule of this office to suspending the paper when the time for which it was pre-paid has expired.

RECEIPTS.—When money is paid at the office for subscriptions, a receipt for it will always be given; but when subscribers remit their money by mail, they may consider the arrival of the first paper a *bona-fide* acknowledgement of our receipt on their funds.

RATES OF ADVERTISING.

TWENTY-FIVE CENTS per line for each and every insertion, payable in advance. To enable all to understand how to calculate the amount they must send when they wish advertisements published we will explain that eight words average one line. Engravings will not be admitted into our advertising columns, and, as heretofore, the publishers reserve to themselves the right to reject any advertisement they may deem objectionable.

OFFICE OF ARMY CLOTHING AND EQUIPAGE, }
No. 29 BROADWAY, NEW YORK, July 3, 1865. }

ARMY SUPPLIES.—SEALED PROPOSALS WILL BE received at this office until 12 o'clock M., on Thursday, the 13th inst., for furnishing by contract, in such quantities, from time to time, as may be required for the use of this office and depot, until the 10th day of May, 1866, the following articles of stationery:—
Letter paper, white, ruled, first-class, 11 pounds to the ream.
Foolscap paper, white, ruled, first-class, 12 pounds to the ream.
Blotting paper, white, first-class, 100 pounds to the ream.
Folio post paper, white, ruled first class, 24 pounds to the ream.

Envelope paper, best quality.
Sealing wax, best English small stick.
Black inks, quart bottles, Maynard & Noyes, Arnold's Chemical Writing Fluid, quarts.
Black ink, quarts, copying.
Red ink, David's No. 3.
Inkstands.
Paper-folders.
Rulers.
Quills.
Office tape, best linen.
Memorandum Books.
Blank Books, cap 1/2 bound, 2, 3, 4, 5 and 6 quires.
Samples of the above articles can be seen, or further information with regard to the same can be received by application to this office. Proposals will be sent with their bids samples of the articles they propose to deliver.
Bonds will be required from the successful bidder for the faithful performance of the contract.
The United States reserves the right to reject any part or the whole of the bids, as may be deemed for the interest of the service. Proposals should be indorsed, "Proposals for Furnishing Stationery," and addressed to
Col. D. H. VINTON,
Dep'y Q. M. Genl., U. S. A.

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No. 29 BROADWAY, NEW YORK, July 3, 1865. }

ARMY SUPPLIES.—SEALED PROPOSALS WILL BE received at this office until 12 o'clock M., on Thursday, the 13th inst., for furnishing by contract, in such quantities and at such times, as may be required, at and for the use of this depot, until May 1, 1866, Furnace Coal and Red Ash Coal, Egg size.
Proposals must be accompanied by a proper guaranty for the faithful performance of a contract.
The United States reserves the right to reject all bids deemed objectionable.
Proposals should be indorsed, "Proposals for Furnishing Coal," and addressed to
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D. Q. M. Genl.

OFFICE OF ARMY CLOTHING AND EQUIPAGE, }
No. 29 BROADWAY, NEW YORK, July 3, 1865. }

ARMY SUPPLIES.—SEALED PROPOSALS WILL BE received at this office until 12 o'clock M., on Thursday, the 13th inst., for furnishing by contract, in such quantities, from time to time, as may be required, for the use of this depot until the 1st of May, 1866, the following articles:—
Nails, kegs, 104 and 12d.
Lamp oil, gallon, sperm.
Box chisels.
Box scrapers.
Wooden mallets, iron-bound.
Nail hammers.
Marking pots.
Marking brushes, assorted.
Trucks, Nos. 3 and 5.
Baling twine.
Bra's lanterns, for oil.
Corn brooms.
Further information can be had by applying at this office.
Bonds will be required of the successful bidder for the faithful performance of a contract.
The United States reserves the right to reject any part or the whole of a bid, as may be deemed necessary for the interest of the service.
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BOILER INCrustATIONS.

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A. G. CROSS, Detroit.

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[*] SPENCER HATT, Cuba, Ind.

THE EIGHTEENTH ANNUAL EXHIBITION OF THE Maryland Institute of Baltimore, for the Mechanic Arts, will commence on Monday Evening, the 24th of October, and continue to Monday Evening, the 30th of October 1865.
The hall will be open for the reception of goods on Monday, the 25th of September.
Goods for Competition and Premium must be deposited before Thursday Night, the 22nd of September.
Circulars, embracing details, may be had of the Actuary at the Institute.
Communications addressed to the undersigned, or Joseph Gibson, Actuary, will be promptly attended to. W. W. MAUGHLIN,
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PARTIES DESIRING TO CONTRACT FOR THE manufacture of Wood and Iron Work, Agricultural Implements, or any article of machinery, can correspond with H. W. BOSTWICK, R. R. Iron Works, Ithaca, N. Y.

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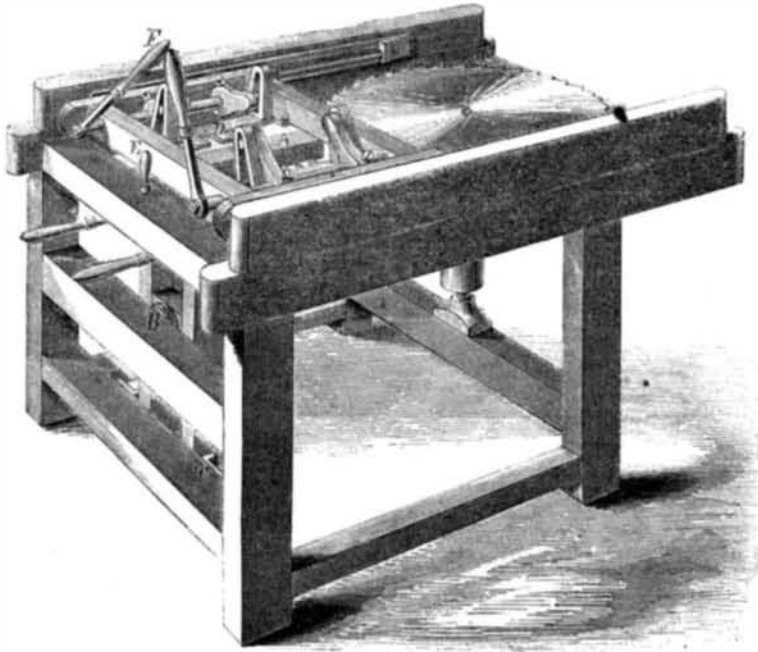
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riage travels only in proportion to the width of the shingle or heading, making them, when the saw is in proper order, as smooth as though shaved. In operating this machine the bolt is laid on the table, A, which swings on a center, B, and is capable of being inclined at any angle. There are two gages, C, at the bottom, by which the inclination of the table is regulated. The bolt on the table is then caught and held by the dogs, D, attached to the carriage, E, and worked by the levers, F. The carriage and bolt are then moved up against the saw, which rapidly severs the shingle from it. The operation of

receives rapid rotary motion from the gears, E, affixed to the main axle. This rotation causes the hooked teeth to catch up the stones and throw them over on to an apron, F, which is furnished with slats bearing teeth similar to those on the roller. These teeth convey the stones to the hopper, G, behind, from which they are afterward dumped as required. The cord, H, works an ingenious device in the rear for dropping the bottom of the hopper and allowing the stones to fall out, and the height of the shoe from the ground is regulated by the lever, I, so that the

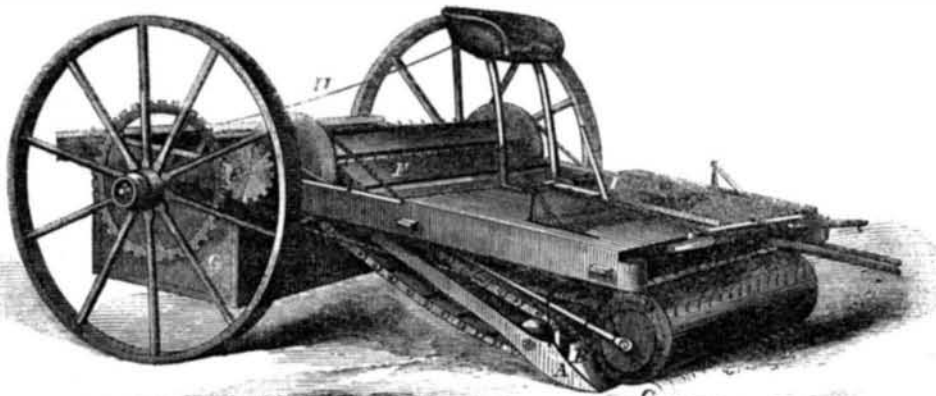
**SMITH'S SHINGLE MACHINE.**

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**STONE-GATHERING MACHINE.**

setting and sawing is repeated continually until the bolt is used up. The alternate action of the table in moving from side to side, taking off each shingle regularly, so that all the bolt is used without loss. It is guaranteed to cut 10,000 shingles a day.

It was patented May 13, 1862, and is manufactured by Wheeler, Melick & Co., New York State Agricultural Works, Albany, N. Y. For machines, or town county or State rights, address Franklin Krum & Co., Albany, N. Y.

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