

- 1,700.—Harvester.—J. F. Seiberling, Doylestown, Ohio. Patented Oct. 15, 1861 : I claim, first, the slotted dropping platform, through which the stubble penetrates and seizes the gavel whilst the platform is drawn back for the purpose of discharging the grain, substantially as specified. Second, I claim the combination of the slotted dropper, M, the cut-off, L, and the finger beam, substantially as described.
- 1,701.—Harvester.—J. F. Seiberling, Doylestown, Ohio. Patented Oct. 15, 1861 : I claim the arrangement of the hinged bars, Q and R, for supporting the heel of the cutter beam, and for elevating and depressing the same and the reel, by means of lever, T, or other devices, said hinged bars being used in connection with the shoe or bar, O, and its flexible attachment, substantially as set forth.
- 1,702.—Harvester.—J. F. Seiberling, Doylestown, Ohio. Patented Oct. 15, 1861 : I claim a finger beam provided with a caster wheel at its outer end and a horizontally-folding hinge at its inner end, whereby said finger beam is rendered capable of folding automatically to the side of the main frame, for the purpose of transportation, substantially as set forth.
- 1,703.—Hoop Skirt.—Cassius Neumann, New York City. Patented Nov. 1, 1859. Re-issued June 26, 1860 : I claim a hoop skirt having its hoops supported by cords twisted or braided, either before or during the manufacture of the skirt, substantially as herein shown and described.

DESIGNS.

- 1,953 to 1,956.—Carpets.—Eliemir J. Ney (assignor to the Lowell Manufacturing Company), Lowell, Mass. Four patents.
- 1,957.—Plates of Cook's Range.—C. J. Shepard, Brooklyn, N. Y.
- 1,958.—Pedestal for Railroad Cars.—John Stephenson, New York City.
- 1,959.—Lamp Box for Railroad Cars.—John Stephenson, New York City.
- 1,960.—Railroad Car-step.—John Stephenson, New York City.
- 1,961.—Clog-hanger for Railroad Cars.—John Stephenson, New York City.
- 1,962.—Axle-box for Railroad Cars.—John Stephenson, New York City.
- 1,963.—Watch Chain.—A. D. Warren (assignor to Stephen Richardson, 2d), North Attleboro, Mass.

EXTENSION.

Spring Mattress.—W. F. Ressique, Cincinnati, Ohio, deceased, Louisa Ressique, Brooklyn, N. Y., administratrix. Patented June 10, 1850 : I claim the construction of the jointed spring mattress, substantially as set forth in the specification.

42,686.—Pump.—Andrew J. Reynolds, Sturgis, Mich. Patented May 10, 1864. [Incorrectly reported in official list of that date] : I claim, first, The arrangement of side pipe, C C', closed at the ends and receiving water through the two-way inlet, E, whose ports, F and F', are closed alternately by the one double-headed valve, G, substantially as set forth. Second, The double-headed and self-emptying inlet valve, G a a' b' c, the same being inserted and put together and adapted to operate in the manner set forth.

# Home Quizzes

J. W. McC., of Pa.—From the indicator card you send us your eccentric appears to have shifted. The steam comes in too soon on one side, and too late on the other. Set screws are poor security, you should put in a key. Turn the eccentric back on the shaft toward the cylinder, and you will remedy the trouble.

J. R. A., of R. I.—We have received your communication about the use of Babbitt metal on bearing surfaces, but do not think it of sufficient importance to publish. We shall be pleased to hear from you and all other mechanics on practical questions.

R. P., of N. Y.—No knife or tool will cut well if it has what is called a rounding edge. You should ask some expert to show you how to grind and sharpen an edge tool.

Money Received.

At the Scientific American Office, on account of Patent Office business, from Wednesday, June 8, 1864, to Wednesday, June 15, 1864:—

J. D. B., of R. I., \$70; P. F. D., of La., \$25; R. S., of N. Y., \$44; J. D. McL., of N. Y., \$20; S. W., of Conn., \$45; H. M., of N. J., \$20; W. B., of Mass., \$20; E. T. J., of Vt., \$20; F. R., of N. J., \$16; G. C., of Mich., \$120; C. A. M., of Ill., \$20; J. D., of N. Y., \$20; D. C. H., of Mass., \$45; A. B., of N. J., \$41; J. H. C., of Pa., \$36; A. H. M., of N. Y., \$22; P. P., of N. H., \$20; W. V., of Mich., \$45; W. F., of Mass., \$25; A. & B. N., of N. Y., \$15; S. S. G., of Mass., \$16; E. P. B., of N. Y., \$16; C. W. & B., of Pa., \$35; L. W., of Ill., \$20; C. B., of Pa., \$16; McK. & W., of Wis., \$25; J. F. A., of La., \$30; J. T. S., of N. Y., \$16; M. F., of Conn., \$16; L. W., of Conn., \$40; J. G. B., of Pa., \$30; H. W., of Ill., \$195; W. S., of Ohio, \$16; R. T. M. W., of Vt., \$25; J. M. F., of Wis., \$50; A. R. A., of England, \$30; E. C., of N. Y., \$41; S. W., of Pa., \$20; P. & H., of Pa., \$20; J. A., of Wis., \$40; A. P., of N. Y., \$20; J. K. M., of N. Y., \$16; J. B., of Ohio, \$20; S. & T., of Mo., \$16; L. H. C., of Ill., \$20; H. G., of N. Y., \$16; R. R., of N. Y., \$20; J. V. C. C., of Conn., \$10; H. S., of N. Y., \$16; E. B. C., of R. I., \$20; A. T. B., of N. Y., \$20; C. M., of N. Y., \$25; A. J. A., of Ill., \$30; R. W. G., of Ill., \$47; F. & B., of Ill., \$40; W. P. M., of Wis., \$25; O. P. F., of N. Y., \$25; A. G. W., of Cal., \$15; W. R. F., of Nevada, \$10; R. S. L., of Ill., \$25; O. P. S., of Ill., \$16; N. A., of Conn., \$16; W. C., of Pa., \$25; A. L. S., of Conn., \$16; E. H. C., of Mich., \$25; C. R. H., of Wis., \$15; C. S., of N. Y., \$35; E. H., of N. Y., \$25; E. F., of N. Y., \$25; W. B. K., of N. H., \$45; C. S., of N. Y., \$16; M. McM., of N. Y., \$20; G. S. C., of N. Y., \$21; C. T. F., of N. Y., \$20; J. F., of N. J., \$20; P. D., of Pa., \$41; C. S., of N. Y., \$10; B. M., of N. Y., \$20; T. D., of N. Y., \$20; J. P. E., of N. Y., \$20; S. L., of Mo., \$20; E. N., of N. J., \$16; N. M., of Pa., \$26; W. J. T., of Maine, \$25; H. & S., of Pa.,

\$16; A. W., of Ill., \$16; J. T., of Wis., \$25; J. B. L., of Iowa, \$16; F. H., of N. Y., \$25; S. & P., of Ill., \$25; L. B., of La., \$27; D. F. H., of Mich., \$25; P. & S., of Conn., \$45; W. J. L., of Mass., \$16; H. M., of N. Y., \$25; G. C., of Ill., \$15; J. S., of Ohio, \$50; H. K. J., of Conn., \$16; H. L. H., of Cal., \$26.

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, June 8, 1864, to Wednesday, June 15, 1864:—

J. D. B., of R. I.; P. F. D., of La.; W. W., of Conn.; E. F., of N. Y.; J. H. C., of Pa.; E. C., of N. Y.; J. G. B., of Pa.; J. O. McF., of Ill.; G. I. B., of Ind. (2 cases); J. F. A., of Wis.; L. W., of Ill.; W. J. T., of Maine; W. F., of Mass.; L. B., of La.; L. W., of Conn.; R. T. M. W., of Vt.; J. M. F., of Wis. (2 cases); R. S., of N. Y.; A. H. M., of N. Y.; A. B., of N. J.; P. D., of Pa.; P. & S., of Conn.; A. G. W., of Cal.; J. T., of Wis.; R. S. L., of Ill.; O. P. F., of N. Y.; N. M., of Pa.; W. P. M., of Wis.; McK. & W., of Wis.; E. H. C., of Mich.; C. S., of N. Y.; E. H., of N. Y.; A. R. A., of England; G. T., of Germany; B. S., of Prussia; A. I. A., of Ill.; W. C., of Pa.; D. F. H., of Mich.; S. & P., of Ill.; P. H., of N. Y.; C. M., of N. Y.; F. & B., of Ill.; W. R. F., of Nevada; H. M., of N. Y.

Binding the "Scientific American."

It is important that all works of reference should be well bound. THE SCIENTIFIC AMERICAN being the only publication in the country which records the doings of the United States Patent Office, it is preserved by a large class of its patrons, lawyers and others, for reference. Some complaints have been made that our past mode of binding in cloth is not serviceable, and a wish has been expressed that we would adopt the style of binding used on the old series, *i. e.*, heavy oarboard sides covered with marble paper, and morocco backs and corners. Believing that the latter style of binding will better please a large portion of our readers, we commenced on the expiration of Volume VII, to bind the sheets sent to us for the purpose in heavy board sides, covered with marble paper and leather backs and corners. The price of binding in the above style is 75 cents. We shall be unable hereafter to furnish covers to the trade, but will be happy to receive orders for binding at the publication office, No. 37 Park Row, New York.

Back Numbers and Volumes of the "Scientific American."

VOLUMES I., III., IV., VII., VIII. AND IX. (NEW SERIES) complete (bound) may be had at this office and from periodical dealers. Price, bound, \$25 per volume, by mail, \$3— which includes postage. Every mechanic, inventor or artisan in the United States should have a complete set of this publication for reference. Subscribers should not fail to preserve their numbers for binding VOLS. II., V. and VI. are out of print and cannot be supplied. We are unable to supply any of the first six numbers of the current volume. Therefore all new subscriptions will begin hereafter with the time the money is received

**PATENTS**  
GRANTED  
FOR SEVENTEEN YEARS!  
**MUNN & COMPANY,**



In connection with the publication of the SCIENTIFIC AMERICAN, have acted as Solicitors and Attorneys for procuring "Letters Patent" for new inventions in the United States and in all foreign countries during the past seventeen years. Statistics show that nearly ONE-THIRD of all the applications made for patents in the United States are solicited through this office; while nearly THREE-FOURTHS of all the patents taken in foreign countries are procured through the same source. It is almost needless to add that, after seventeen years' experience in preparing specifications and drawings for the United States Patent Office, the proprietors of the SCIENTIFIC AMERICAN are perfectly conversant with the preparation of applications in the best manner, and the transaction of all business before the Patent Office; but they take pleasure in presenting the annexed testimonials from three past ex-Commissioners of Patents:—

MESSRS. MUNN & CO.—I take pleasure in stating that, while I held the office of Commissioner of Patents, MORE THAN ONE-FOURTH OF ALL THE BUSINESS OF THE OFFICE CAME THROUGH YOUR HANDS. I have no doubt that the public confidence thus indicated has been fully deserved, as I have always observed, in all your intercourse with the office, a marked degree of promptness, skill, and fidelity to the interests of your employers. Yours very truly,  
CHAS. MASON.

Judge Mason was succeeded by that eminent patriot and statesman, Hon. Joseph Holt, whose administration of the Patent Office was so distinguished that, upon the death of Gov. Brown, he was appointed to the office of Postmaster-General of the United States. Soon after entering upon his new duties, in March, 1859, he addressed to us the following very gratifying letter:

MESSRS. MUNN & CO.—It affords me much pleasure to bear testimony to the able and efficient manner in which you discharged your duties as Solicitors of Patents, while I had the honor of holding the office of Commissioner. Your business was very large, and you sustained (and I doubt not justly deserved) the reputation of energy, marked ability, and uncompromising fidelity in performing your professional engagements. Very respectfully, your obedient servant,  
J. HOLT.

Hon. Wm. D. Bishop, late Member of Congress from Connecticut, succeeded Mr. Holt as Commissioner of Patents. Upon resigning the office he wrote to us as follows:

MESSRS. MUNN & CO.—It gives me much pleasure to say that, during the time of my holding the office of Commissioner of Patents, a very large proportion of the business of inventors before the Patent Office was transacted through your agency; and that I have ever found you faithful and devoted to the interests of your clients, as well as eminently qualified to perform the duties of Patent Attorneys with skill and accuracy. Very respectfully, your obedient servant,  
WM. D. BISHOP.

THE EXAMINATION OF INVENTIONS.

Persons having conceived an idea which they think may be patentable, are advised to make a sketch or model of their invention, and submit it to us, with a full description, for advice. The points of

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 individual uals 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 if 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 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.

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.

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