RE-ISSUES.

1,861.—Cartridge Box.—Erastus Blakeslee, New Haven, Conn. Patented Dec. 20, 1864:

I claim a cartridge box constructed in the manner described, to carry one or more movable tubes, each tube containing two or more cartridges, as and for the purpose specified.

1,862.—Supplemental Valves for Steam Engines.—
Richard Colburn and L. W. Hanson, Norwich, Conn. Patented May 20, 1856:
We claim as our invention the combination of an apparatus, substantially as described and for the purposes specified, with the cylin der and piston of a steam engine—such apparatus consisting of the passages, f. g. the valve boxes, E. E., the valves, K. R., their seat passages, h. h., and the lever, L., or its equivalent.

We also claim the said apparatus construced substantially as described and for the purpose or purposes specified.

1,863.—Valve Gear.—Joseph F. Hamilton, Pittsburgh, Pa. Patented July 14, 1863:
I claim the arrangement of the regulating coupling arms, h. lifters or propeller arms, i.k., springs, l., levers, m and n, and link, d, when used in connection with a governor, rock shaft or eccentric of steam engines, the whole being constructed and operating substantially as herein described and for the purpose set forth.

1,864.—Arrangement of Valves for Steam Engines.—
Joseph F. Hamilton, Pittsburgh, Pa. Patented July 24, 1860:
I claim the use of the valve, i, placed in one of the receiving ports of steam engines, as herein described, and for the purpose set forth.

1,855.—Curding Machines.—Lawrence O'Brien, Indianand applies Ind. Patented Oct 6, 1863.

1,855.—Carding Machines.—Lawrence o'Brien, Indianapolis, Ind. Patented Oct. 6, 1863:
I claim the arrangement of the roll, D, between the main card cylinder. A, and the endless apron, C, substantially as and for the purpose set forth.

pose set forth.

Also the construction of the endless apron, C, substantially a herein described, so as to carry the fibers on top of the slats, and dust and other foreign matters between them, the fibers being de livered to the roll, D, and the foreign matters discharged in passing over the upper roll, F, when the same is applied in the manner specified.

Solen, Mass.—Patented Nov. 10, 1863: claim as my improvement in mechanism for operating the und-producing parts of a musical instrument the above-described angement of dents, or their equivalents, on a rotary plate, G., in concentric circles, and with the circle of treble and bass at alternating with respect to one another, substantially as set

dents alternating with respect to one another, substantially as set forth.

And in combination with the said arrangement of dents on a rotary plate, I claim the arrangement of the bass and the treble-key levers, or the parts which produce or aid in producing the musical sounds, in two separate series or sets, whereby those of the bass notes are in one set and those of the treble notes are in the other set, substantially as specified.

And in combination with the keys of a keyed inusical instrument, I claim a series of operative key levers and a rotary plate, provided with dents, arranged on its face, as specified. I also claim the combination of the separate operating wheel, D, and its operative mechan sm, substantially as described, with the plate, G, provided with dents, or their mechanical equivalents, arranged as explained.

I also claim the combination of the hinged or elevating frame, M, with the plate, G, and the series of operating levers, C C, or their equivalents.

I also claim the combination of the hinged or elevating frame, M, with the plate, G, and the series of operating levers, C C', or their equivalents.

I also claim the improved speed regulator, composed of one or more adjustable wings, N N', and their stationary surface or wing or wings, and mechanism for varying the position of the adjustable wing or wings relatively to one or more stationary wings, substantially as and for the purpose specified.

I also claim a combination, consisting of the rotary plate, G, with its arrangement of dents, the series of key levers, C C', or their mechanical equivalents, and a mechanism for imparting a rotary motion to the plate, G, the said key levers being applied to the keys and to the dents, hy means, and so as to operate therewith, substantially as specified.

1,867.—Paper Collars.—Wm. E. Lockwood, Philadelphia, Pa., assignee by mesne assignment of Walter Hunt. Ante-dated July 24, 1854:

As a new manufacture, a shirt collar, in which paper is used to impate starched linen, and which is made of the desired shape by dies or forms applied under pressure.

2,028.—Military Belt Hook.—Erastus Blakeslee, New Haven, Conn.

2,029.—Badge or Breastpin.—Michael F. Ryan, New York City.

2,030.—Trade Mark.—Stephen S. Winchester (assignor to E. A. & W. Winchester), Boston, Mass.



# 🕅 A T E N T S

# FOR SEVENTEEN YEARS.

# MUNN & COMPANY,

ction with the publication of In co the SCIENTIFIC AMERICAN, have act

ed as Solicitors and Attorneys for procuring "Letters Patent" fo 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 for patents in the United States are solicited the applications made for patents and office states are solidate through this office; while nearly three-fourths of all the patent taken in foreign countries are procured through the same source. In is almost needless to add that, after seconteen years' experience in pre-paring 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 triggradion of all business before the Patent Office; but they sure in presenting the annexed testimonials fro last ex-Commissioners of Patents.

ast ex-Commissioners of vacuus.

Missrs, Munn & Co. — I take pleasure in stating that, while I held he office of Commissioner of Patents, more than one-fourth of LLL the distributions of the office came through your hands. I have no doubt that the public confidence thus indicated has been ully 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.

Udge 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.

ollowing 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 nates as Solicitors of Patents, while I had the honor of holding the disco of Commissioner. Your business was very large, and you sus anned (and I doubt not justly deserved) the reputation of energy, narked ability, and uncompromising fidelity in performing your processional engagements.

Very respectfully, your obedient servant,

J. Holf.

Hon, Wm, D. Bishop, late Member of Congress from Con

succeeded Mr. Holt as Commissioner of Patents. Upon resigning the office he wrote to us as follows:

MESSRS, MUSN & 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 verform the duties of Patent Attorneys with skill and accuracy.

Very respectfully, your obedient servant, W.M. D Bishop.

#### THE EXAMINATION OF INVENTIONS.

Persons having conceived an idea which they think may be patent able, 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 in ventors 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 brother-hood or inventors and patentees, at home and abroad. Thousands o inventors for whom they have taken out patents have addressed to them most flattering testimonials for the vices rendered them; and the wealth which has inured to the individ-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 mickest time and on the most 'theral 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 Paten-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 Oilice 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 Address MUNN & CO., No 37 Park Row, New York.

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 exist ing patent, perore making large investments. Written opinions or 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 inventionand being informed of the points on which an opinion is solicited. For further particulars address MUNN & CO., No. 37 Park Row, New York.

e Patent Laws, enacted by Congress on the 2d of March, 1861 are ow in full fo ee, and prove to be of great benefit to all parties who re concerned in new inventions.

The law abolishes discrimination in fees required of foreigners, ex ceptingnatives 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 enjoyall 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

# 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 ref erences, models, drawings, documents, &c. Their success in the prose cution of rejected cases has oeen 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 pros cuted, are invited to correspond with MUNN & CO., on the subject giving a brief history of the case, inclosing the official letters, &c.

## FOREIGN PATTENS.

Messrs. MUNN & CO., are very extensively engaged in the prepara-tion and securing of patents in the various European countries. For the transaction of this business they have offices at Nos. 66 Chancer the London; 29 Boulevard St. Martin, Paris; and 26 Rue des Eper niers, Brussels. They thing they can safely say that THREE-FOURTH. of all the European Patents secured to American citizensare pro

cured through their agency.

Inventors will do well to bear in mind that the English law d limit the issue of patents to inventors. Any one can take out a pat-

Circulars of information concerning the proper cours 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.

## HOW TO MAKE AN APPLICATION FOR A PATENT.

Every applicant for a patent must furnish a model of his invention is 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 inremote 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 outlitterisk in sending bank bills by mail, having the lettered by the postmaster. Address MUNN & CO., No. 37 Pa

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

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#### 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 visitto he 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 wholeestablishment is one of great interest to inventors, and is undoubtedly the most spacious and best arranged

MUNN & CO. wish it to be distinctly understood that they do eculate or traffic in patents, under any circumstances; but that they devote their whole time and energies to the interests of their

### 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 tur nish the claims of any patent granted since that date, for \$1.

### 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 beirs, 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 enga retain models more than one year after their receipt, owing to 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 mode 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

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



S. J. A., of Vt.—No power is actually gained by either the lever, inclined plane, screw or wedge; what is lost in time. This applies to them all equally. at is gamed in n

O. M., of Ind.—You have doubtless seen that the true inventor of the Ruhmkorff coil has already been named in our

D. B., of Wis.—The "natural lime" in soil is carbonate of lime, and this would not injure guano. Sulphuric acid, if mixed with guano, would combine with the ammonia to form sulphate of ammonia, and then this would be slowly decom during the growth of the plants, yielding the ammonia as wanted. Sulphuric acid is destructive to both animal and vegeta ble compounds, and would require diluting with many times its weight of water to be harmless to vegetation. It is not a fertilizer

C. T., of Mass. - We know of no method by which you nix claine oil with water

J. W. P., of Me.—A sand bath for bluing steel is simply white beach sand, such as is used for scrubbing floors. Place it in white beach sand, such as is used for scrubbing noors. Place it in an iron pan, over the fire, and heat it hot. The steel must be polished bright, and laid on the sand, when it will gradually acquire a bluish tint. At the right shade take it off and plunge it immediately in cold water. Anything that diffuses the heat evenly will do as well as sand; this material is only used for that purpose.

J. M., of N. Y.-Ede, on steel working, is the book you want. Address D. Appleton & Co., New York City, or go there

G. F., of Mass.—The sample of paper you send is made