IMPORTANT TO INVENTORS.

PATENTS FOR SEVENTEEN YEARS.

MESSRS. MUNN & CO., PROPRIETORS OF THE RELEASTING AMERICAN, continue to solicit patents in the United



States and all foreign countries, or the most reasonable terms. also attend to various other depart ments of business pertaining to pat ents, such as Extensions, Appeals before the United States Court Interferences. Oninions relative to Infringements, &c. The long ex-perience Messrs. Myns & Co. have had in preparing Specifications and Drawings has rendered them perfectly conversant with the mode of doing business at the

United States Patent Office, and with the greater part of the invention which have been patented. Information concerning the patentability of inventions is freelygiven, without charge, on sending a model of drawingand description to this office.

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 some, are having to make a skewn or model of ther investion, submit it to us, with a full description, for dvice. The points of sity are carefully examine i, and a written reply, corresponding u the facts, is promptly sent free of charge. Address MUNN & CO., No.37 Park Row, New York.

PRELIMINARY REAMINATIONS AT THE PATENT OFFICE n examining an invention The service we render gratuitously upo does not extend to a search at the Patent Office, to see if a like inven tion has been presented there, but is an opinion based upon what knowledge we may acquire of a similar invention from the records in our Home 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 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 our Branch Office, corner of Fand Seventh streets, Washington, by experienced and competent per-suns. Many thousands of such examinations have been made through this office. 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 iceptible of one; or, if the invention is a chemical production, ist furnish samples of the ingredients of which bis composition ist, for the Patent Office. These should be securely packed, the he must furnish samples 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 draft on New York, payable to the order of MUNN & CO. Persons who live in remote parts of the country can ourchase drafts from their merchants on their New York cor hensilly ents ; but, if not convenient to de so, there is but little risk in sending bank bills by mail, having the letter registered by the Post-Therevised Patent Laws, encode by Congress on the 2d of March,

1961. are now in full force, and prove to be of great benefit to all par vho are concerned in new inventions.

The duration of patents granted under the new act is prolonged t EXVENTEEN years, and the Government fee required on filing an appliextion for a patent is reduced from \$30 to \$15. Other changes in the fees ate also made as follows :-

On filing each application for a Patent, except for a design\$10 On filing each application for a Patent, except for a design\$15	
On issung each original Patent\$20 On appeal to Commissioner of Patents\$20	
On application for Re-issue. \$30 (m application for Extension of Patent	
On granting the Extension \$10	
On fling a Disclaimer	
On tiling application for Design, seven years	

The law abolishes discrimination in fees required of foreigners, ex cepting 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 (but in cases of desigas) on the above terms. Foreigners cannot secure their inven tions by filing a caveat; to citizens only is this privilege accord

During the last seventeen years, the business of procuring Patents for new inventions, in the United States and all foreign countries bas been conducted, by Messrs. MUNN & CO., in connection with the unbligation of the SCIENTIFIC AMERICAN: and as an evidence of publication of the SOLEALIFO ASE MOAN, and as an other stronghout the confidence reposed in our Agency by the inventors throughout the country, we would state that we have acted as agents for at least TWENTY THOUSAND inventors! In fact, the publishers of this paperhave become identified with the whole brotherhood of invenrs and patentees at home and abroad. Thousands of inventors for m we have taken out patents have addressed to us most flatter ing testimonials for the services we have rendered them, and the wealth which has inured to the inventors whose Datents were se-cured through this office, and afterwards illustrated in the SCIEN-TIFIC AMERICAN, would amount to many millions of dollars i We would state that we never had a more efficient corps of Draughtsmen and Specification Writersthan those employed at presentin 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.

REJECTED APPLICATIONS.

We are prepared to undertake the investigation and prosecution of rejected cases on reasonable terms. The close proximity of our Washington Agency to the Patent Office affords us rare opportunities for the examination and comparison of references, models, drawings ents, &c. Our success in the prosecution of rejected cases ha been very great. The principal portion of our charge is generally less st upon the final result.

All persons having rejected cases which they desire to haver couted, are invited to correspond with uson the subject, giving a brief story of the case, inclosing the official letters, &n.

CA VRATS

ns desiring to file a d aveat can have the papers p shortest time by sending a sketch and description of the invention. Ube Government fee for a caveat, under the new law, is \$10. A pam phlet of advice regarding applications for patents and caveats, printed in English and German, is furnished gratis on applies. tion by mail. Address MUNN & CO., No. 37 Park Row, New York.

FOREIGN PATENTS.

We are very extensively engaged in the preparation and securing of patents in the various European countries. For the transaction of this business we have offices at Nos. 66 Chancery lane, London ; vard St. Martin, Paris ; and 26 Rue des Eperonniers, Bru sels. We think we can safely say that THREE-FOURTHS of all the European Patentssecured to Americancitizensare procured through the Scientific American Patent Agency, No. 37 Park Row, New York. 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 purand in obtaining patents in foreign countries through our Agency, the requirements of different Government Patent Offices, &c., may be had gratis upon application at our principal office, No. 37 Park w, New York. or any of our branch offices

ASSIGNMENTS OF PATENTS.

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

It would require many columns to detail all the ways in which nventors or patentees 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, whereany questions regarding the rights of patentees will be cheerfully an--swered.

Com unications and remittances by mail, and models by express (prepaid), should be addressed to MUNN & CO., No. 37 Fark Row. v York

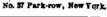
TO OUR READERS.

PATENT CLAUMS. - Persons desiring the claim of any invertion which has been patented within thirty years, can ohtain copy by addressing a note to this office, stating the name of the patences and date of patent, when known, and inclosing \$1 as fee for copying. Wecan also furnish a sketch of any patented machine issued since 1853, to accompany the claim, on receiptof \$2. Address MUNN & CO., Patent Solicitors, No. 37 Park Row, New York,

Models are required to accompany applications for Patents under the new law, thesame as formerly, except on design patent when twogood drawings are all that are required to accompany th npany the petition, specification and oath, except the Gover nme at fee,

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

NEW PAMPHLETS IN GERMAN .- We have just issued a re n of our pamphlet of I ed edit N to I 100 a digest of the fees required under the new Patent Law, &c., printe in the Germanianguage, which parama can bave gratis upon cation at this office. Address MUNN & CO., n appl





T. W., of N. Y .- Phosphorized ether is made with sulphuric ether and phosphorus. A small piece of phosp placed in a plat, and some therpoint over it. The plat is ther well stoppered, and shaken occasionally, until the phosphorus dis 'This preparation is employed to produce waves of light in solves. chemical experiments, by dropping a piece of loaf sugar in the etber, slightly hea ted, and blowing gently over it with the breath

- E. B., of Mo .- Any person has a right to use your invention outside of the United States ; and although he may have made a large fortune by its use, you have no claim upon him for any on of the proceeds.
- C. W., Jr., of Mass.-A report on the electric light at Dungeness, Scotland, has been made to the House of Commons the only source, so far as we know, from which you can obtain Tt in on you desire respecting it. informati
- J. W. R. of Pa.-Coal ashes contain a small quantity of potash, which is a deliquiescent salt. Having mixed some of it the hydraulic cement of which the floor of your cellar is made, this may account for the floor becoming very damp during wet weather Sprinkle equal parts of dry hydraulic cement and clean sand over when it is damp, and you will probably remedy the evil. J. G. H., of Mo.-A good Jonval turbine wheel would be
- est that you could use on your 35-foot fall, with a regular sup. ply of 10 cubic feet of water per second. When the qu antity. water is irregular, the over-shot, or breast-wheel, should be preferred. Several good turbine wheels have been illustrated in the SCIENTIFIC AMERICAN. Communicate with the makers of heels about price, &c., and state the purpose to which you desire to apply it.

E. C. P., of Mass._There is no special work published on spectral analysis, so far as we know. We would prefer silver to luminun for spoons or any other article of domestic use.

V: B. T., of Iowa .- The flax-dressing machine to which you refer is a good one. Steam evaporato:s for sirups are perhaps the most safe; because you can regulate the temperature in a man-

ner superior to that of employing fire direct to the pans. J. R., of Ohio .- You must heat your boxes before applying the Babbitt metal, or it will not adhere

J. H. B., of Obio.-Electricity may be generated by r, and conducted on wires to as great a distance as if generated by a battery; but you will find it too expensive and troublesome to provide it thus. for use as a motive power two miles distant. In such a case you would require a very large conductor for a very small power.

R. A. R., of N. Y .- There is no truth in the "fact" that a long screw driver is more powerful than a short one. There is no power in a screw driver any more than there is in a potato. The force is supplied by the man using it, and the longer thetooi the more chance he has to exert his strength.

S. M. P., of Maine.-Use the scraping tool instead of the sharp, keen edged one; and you will find that the turning is much

- L. M., of Conn .- You cannot expect to become a proficient in tempering steel without practice, and an opportunity of rving others skilled in the art.
- W. H. T., of N.'Y .- The birch oil of Russia which is used in the manufacture of Russia leather, and which is a powerful pre-servative, is obtained by submitting birch bark to distillation. Such oil might be manufactured in large quantities from the birch bark of our forest trees; and possibly similar oils may be obtained m the bark of others.
- H. W., of Ohio.—You must not expect to obtain good molasses from beet root. In France and Germany such molasses is ven to pigs; it is nauseous and has a very disagreeable smell.
- given to pigs; it is nauseous and nave very uses. Control of the second gas for illumination can be made from wood, but it costs more than gas made from cosl. Germany, where coal is high in price, there are twenty different, towns in which gas made from wood is used.
- J. P. G., of Ill.—Starch is never attacked by insects : it is the gluten of wheat which is so subject to insect depredations. Starch manufacturers have informed us that they bave kept starch for several years, and in no case have they ever noticed it depreciate in quality.
- H. P. C., of N. J .- The finest qualities of silk are now raised in France, where as much cate has been devoted to improving the breed of slik worms, by crossing the varieties, as has been ed in other countries in improving the breed of sheep, to seexerci cure fine wool.
- R: F., of Mass.-The armament of the Monitors is now said to be one 8-inch Parrottrifle, and the 15-incb gun.
- J. M., of Conn.-We do not know the proportions of the freezing mixture. You had better obtain the glauber saits and sait eter and experiment for yourself.
- R. P. W., of Ill.-Good cast-iron is easily distinguished by the closer ess and smallness of its crystals and its bluish grey color. Good wrought-iron is tested by bending cold, and applying severe strains of allkinds.
- G. S., of N. Y .- No reliance can be placed upon any assertions of the character you mention. We do not admit that class of matter into our columns.
- R. F., of Mass .- Toe most simple method of making the stannate of soda, which is used to such a great extent in Europe by alico printers, is to fuse tin ore with sods
- J. H. W., of Pa.-Rosin oil is not suitable for painting. mpared with linseed oil, but you might use it in the painting of outhouses. We advise you to submit your barometer to some philophical instrument maker in Philadelphia, and not send it to any great distance to have the air removed from the tube
- M. B., of Wis.-Although the lead ores of Great Britain do not contain so much lead as those of At erica, they contain more silver, and are beld to be more profitable to work

Money Received

At the Scientific American Office, on account of Patent Office business, from Wednesday, July 22, to Wednesday, July 29, 1863 :---

W. P., of N. Y., \$20; J. M. S., of N. J., \$16; R. G., of Ind., \$20; W. S. J., of Conn., \$20; E. E., of N. Y. \$20; Z. W., of Gal, \$25; J. B., of N. Y., \$20; T. J. D. of N. Y. \$45; Z. W., of Gal, \$25; J. B., W.W., of Pa, \$25; A. H. T., of R. I., \$16; I. E. P., of Conn, \$25; A. H. A., of Ind., \$12; G. S. M., of Conn., \$10; J. C. L., of Mo., \$16; J. E. Van S., of Ky., \$10; S. D. E., of Mich., \$44; G. H. L.: of Ill .. 540; J. C., of Mass., \$250; E. W. H. of Ill., \$29; E. R. S., of Mass., \$40; J. C., of Mass., \$250; E. W. H. of Ill., \$29; E. R. S., of Mass., \$16; J. L. K., of N. J., \$16; R. McD., of N. J., \$20; H. M., of N. Y., \$20; C. II. R., of Maine, \$20; T. H., of N. Y., \$20; A. B. E., of Mass., \$100; T. T. H., of N. T., \$20; R. A. T., of N. Y., \$16; H. W., of Ohio, \$7; S. and W., of Conn., \$778; H. F. B., of III., \$25; C. P. of Ohio, \$7; S. and W., of Conn., \$778; H. F. B., of Ill., \$25; C. P. C., of Mass., \$25; F. C., of N. Y., \$25; C. F., of Ill., \$15; M. D., of Ind., \$15; A. H., of Ill., \$15; K. and L., of Ohio, \$29; P. M., of Ill., \$25; S. W., of N. Y., \$16; W. and C., of N. Y., \$16; R. R. B., of N. Y., \$25; T. P. R., of Mass., \$25; D. R., of N. Y., \$20; C. T. D., of N. J., \$16; E. A. S., of N. Y., \$20; M. R. S., of N. Y., \$20; C. T. D., of Of N. Y., \$41; P. E., of N. Y., \$16; H. G., of N. Y., \$16; M. and B., of N. Y., \$41; W. T., of N. Y., \$10; B. L. W., of Mass., \$28; S. G., of Ill., \$16; J. J. K., of Ill., \$15; J. C., of R. T., \$12; S. and S., of N. Y., \$20; J. S. B., of England, \$16; D. and H., of Ind, \$16; G. F. J., of Kowa., \$20; T. J. W., of N. H., \$25; S. W., W., of Mass., \$16; H. S. 80; of K. Y., \$20; T. J. S., of K. J., \$25; S. W. W., of Mass., \$28; H. G., S. \$30; Of Kowa., \$20; T. J. W., of N. H., \$25; S. W. W., Y., \$16; M. S. S. of Fows #20: T. J. W., of N. H., \$25: 8. W.-N.; of N. Y., \$16: A. S. ofN. Y., \$25; A. A. S., of Micb., \$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 received an acknowledgement by mail, and their initials are not be be found in this list, they will please notify us tomediately, and in-form us the amount, and how it was sept, whether by mail or er-

Specifications and drawings and models belonging to parties with the following initials have been forwayded to the Patent Office trom Wednesday, July 22, to Wednesday, July 29, 1863:-

Unce from Wednesday, July 22, to Wednesday, July 22, 1883:-H. W., of Ohio; A. C. B., of N. Y.; M. & O., of France; J. C., of R. I.; E. P. C., of Mass; T. J. W., of N. H.; A. S., of N. Y.; P. C., of N. Y.; R. R. B., of N. Y.; P. J., of France; W. T., of N. Y.; M. R. S., of N. Y.; I. E. P., of Conn.; A. H. A., of Ind.; B. L. W., of Mass.; G. W. W., of Pa.; J. E. Van S., of Ky.; S. & S., of N. Y.; T. P. R., of Mass.; E. B. R., of N. J.; M. & B., of N. Y.; R. W., of Mass. (3cases); J. B. C., of Kansas; H. F. B., of Ill.; G. F.J., of Towa; K. & L., of Ohlo; E. J. F., of Ill.; P. M., of Ill.