# PATENTS FOR SEVENTEEN YEARS.



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

The duration of patients granted under the new act is prolonged to syvenyees, and the government fee required on filing an appli ed on 1 nt fee require ing an appli cation for a patent is reduced from \$30 down to \$15. Other change in the fees are also made as follows :-

On filing each Caveat\$10	
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On issuing each original Patent\$20	
On appeal to Commissioner of Patents\$20	
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The law abolishes discrimination in fees required of foreigners. en coping reference to such countries as discriminate against citizens o the United States—thus allowing English, French, Belgian, Austria Bussian, Spanish, and all other foreigners except the Canadians, te enjoy all the privileges of our patent system (exceptin cases of designs

on the above terms. During the last sixteen years, the business of procuring Patents for new inventions in the United States and all foreign countries has been conducted by Messrs. MUNN & CO., in connection with the publica-tion of the SCIENTIFIC AMERICAN; and as an evidence of the confidence reposed in our Agency by the Inventors throughout the country, we would state that we have acted as agents for more than FIFTEEN THOUSAND Inventors! In fact, the publishers of this paperhave become identified with the whole brotherhood of Inventor and Patentees at home and abroad. Thousands of Inventors for whom we have taken out Patents have addressed to us most flatterin testimonials for the services we have rendered them, and the wesith which has inved to the Inventors whose Patents were seared arough this Office, and afterward illustrated in the SCIENTIFIC AMERICAN, would amount to many millions of dollars! We would state that we never had a more efficient corps of Draughtsmen Specification Writers than are employed at present in our exter Offices, and we are prepared to attend to Patent business of all kinds in the quickest time and on the most liberal terms.

## The Examination of Inventions

ons having conceived an idea which they think may be patent able, are advised to make a sketch or model of their invention, and submitit to us, with a full description, for advice. The points of novelt are carefully examined, and a reply written corresponding with the facts, free of charge. Address MUNN & CO., No. 37 Park-row, New York

Preliminary Examinations at the Patent Office The advice we render gratuitously upon examining an invention does Botextend 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 we may acquire of a similar invention from the records in our Hos 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 Paten Office, and a report setting forth the prospects of obtaining a Pater &c., made up and mailed to the Inventor, with a pamphlet, giving in Acc., made up and mailed to the Inventor, with a pampinet, giving in-structions for further proceedings. These preliminary examinations are made through our Branch Office, corner of F and Seventh-streets Washington, by experienced and competent persons. More than 5,000 such examinations have been made through this office during the past three years. Address MUNN & CO., No. 37 Park-row, N. Y.

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Every applicant for a Patent must furnish a model of his invention eptible of one; or if the invention is a chemical production, he Ifsus mustfurnish samples of the ingredients of which his consists, for the Patent Office. These should be securely packed, the nventor's name marked on them, and sent, with the government fees by express. The express chargeshould be prepaid. 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 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.

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, under the new law, is \$10. A pamof adviceregarding applications for Patents and Caveats, i glish and German, furnished gratis on application by mail. Addres MUNN & CO., No. 37 Park-row, New York.

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We are prepared to cases, on reasonable terms. The close proximity of our Wash Jected cases, on reasonable terms. In a close proximity of our wasa-ington Agency to the Patent Office affords us rare opportunities for the examination and comparison of references, models, drawings, docu-ments, &c. Our success in the prosecution of rejected cases has been very great. The principal portion of our charge is generally left de pendent upon the final result.

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

Assignments of Patents. The assignment of Patents, and agreements between Patentees and nanufacturers, carefully prepared and placed upon the records at the Patent Office. Address MUNN & CO., at the Scientific American Pat At the Scientific A marked and the scientific A merican fac-nt Agency, No. 37 Park-row, New York. 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 answer

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



J. R., of Mich.-An article on the construction, arrangement and speed of bolts for milling, without referring to the quest tions of G. W.  $W_{4}$  would be most instructive for our readers.

W. F. D., of Mass .- Graphite has been obtained in cast iron, but the iron itself cannot be converted into graphite, because the latter is simply carbon in a peculiar condition. The which adheres to the interior of gas retorts, is of the sam The graphite early as graphite plumbago.

G. M. H., of Me .- The case of variation of half an inch in the shrinkage of two similar castings of columns, from the same pattern and with the same kind of iron, must be due to the mode of casting, or the metal in the one case had beeu raised to a higher temperature than in the other case. Such variations of shrinkage are not nncommon.

I. N. G., of N. Y.-A solution of the chloride of soda will remove the odor from muskrat skins, but the operation will slightly injure the quality of the skin. To apply the chloride, steep the skins for about an hour in the liquid, of a strength equal to 1°

W. D. S., of Pa-You will find the theory of the action of Giffard's Injector set forth on page 260, Vol. III. (new series) SCIEN TIFIC AMERICAN. Your views accord with that theory.

T. O. B., of Ind.-There is no practical work published on dveing that comes up to the practice of the present day. All logwood blues dyed on cotton are fugitive. They are prepared with a mordant of pyroligneous acid, and topped with strong logwood liquor

W. M., Jr., of Pa.-French pistols are frequently made with the same acute grooves as those shown in your sketch, and they have been proposed to us for muskets several limes within the Grooved friction wheels are coming into comm past year. Grooved friction wheels are coming into common use as substitutes for toothed gearing. Your paper is sent regularly from n use as this office.

J. S. B., of N. Y.-You can manufacture any of the machines for which you own the patent right of Monroe county, but ou cannot sell them in the neighboring county, without the cons he owner of the patent for that county.

J. C., of C. W .- The power of steam engine required for propelling your yacht, at a certain speed, depends upon the model and displacement. You should consult a steamboat builder, and our model or draft to him.

C. W. C. S., of Manassas Junction, Va.-We have seen several statements pretending to give the horse power of Niagara Falls, but we distrust them all. There is no space of any conse-quence, for a long distance below the falls, for building factorics, or Niagara would be a splendid situation for a manufacturing city. precipitous rocks extend nearly to the edge of the river

A. T. S., of Ill.-You will obtain all the receipts you request some time during the publication of this volume of the SCIEN-TIFIC AMERICAN, as we shall publish one column of such every

C. M., of Pa.-You can ascertain all about vessels sailing from this port by referring to the columns of the Journal of Com

I. M. S., of N. Y.-The article to which you refer an carbonic oxide, was obtained chiefly from the London Journal of Gas Lighting. The reference to water gas on the continent of Europe cannot mislead the public, as we view the question.

W. B. S., of Vt.-It is impossible to tell whether American watches keep as good time as English lever watches having the fusee, without a series of long and comparative experiments with the best watches of the two classes. Sofaras we know, such exents have not been made.

C. S. H., of N. Y .- By raising a cut iron nail to a red heat, wing it to cool very slowly in warm sand, ashes or char-ill become soft and tough and may be clinched.

R. R., of Ill.-Raw silk is not cultivated in this section. and we do not know what prices may be obtained for cocoons, or where you can obtain silk worms-

, of N. Y.-We have never heard it stated that the stripes of the American flag were symbolic of any institution in our Re ----

P. A. J., of N. Y .- Strong and warm soap suds should remove gum from the journals of your Buck-eye mower. A lye of soda or potash will effect the same object J. J. A., of Wis .- Soap mixed with arsenic is the composition used for stuffing birds and preserving their skins. The follow-ing is a good receipt for your use : Camphor 2½ oz.; powdered ar-senic, 1 lb.; while soap, 1 lb.; salls of tartar, 6 oz.; powdered chalk, 2 oz, ; mix all together and use in the common way Corry site sublimate has been recommended as a substitute for arsenic in preserving insects and birds, but it is much inferior. There is no good work published on the art of forging.

W. F. S., of Ohio .- You ask for an impossible receipt, namely, "To kill the stick of glue without injuring the sticking qualities."

J. B., of N. Y.-The London Journal of Gas Lighting is published by W. B. King, No. 11 Bolt Court, Fleet street, Londo

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At the Scientific American Office on account of Patent Office business, during one week preceding Wednesday, July 2, 1862:-

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H. N. G., of N. Y., \$15; C. M. B., of Mass., \$15; A. B., of Conn., H. N. G., of N. Y., \$15; C. M. B., of Mass., \$15; A. B., of Conn., \$225; J. H. & E. H. A., of Md., \$23; C. B., of Iowa, \$25; A. J. H., of Pa, \$10; W. H. G., of N. Y., \$40; J. H., of Pa., \$20; J. R. & J. A. S., of 111., \$20; W. H. McN., of N. Y., \$20; S. J. A., of Cal., \$20; E. B R., N. J., of \$20; M. G., of Pa., \$20; J. W., of N. Y., \$20; S. B. R., of Wis., \$20; S. T. W. P., of N. Y., \$20; G. H. M., of Mass., \$20; F. W., of Mass., \$45; C. & G. M. W., of N. Y., \$20; G. J. H., of I11, \$20; B. R., of Wis., \$20; S. H., of Pa., \$20; J. E., of N. J., \$20; F. W., of Mass., \$45; C. & G. M. W., of N. Y., \$20; M. G. J. H., of I1, \$20; B. R., of Conn., \$20; S. H., of Pa., \$20; J. E., of N. J., \$20; J. A., V. ef Cond. B. P. ef M. W. Schu, Schult, Status, Statu C, of Conn., \$20; A. J. L. of Pa., \$20; J. E., of N. J., \$20; J. A., Jr., of I.I., \$20; G. P. B., of Pa., \$20; G. & H., of II., \$10; G. H. H., of N. Y., \$40; L. H. D., of Ohio, \$25; R. H. J., of III., \$20; A. R., of Cal., \$50; B. S., of N. J., \$25; W. T., of Wis.; \$15; C. J., of Conn., \$15; M. & A., of Wis., \$63; D. & K., of Conn., \$15; W. M. C., of Pa., \$15; J. A., of Conn., \$15; D. II., of III., \$15; J. C., Jr., of N. Y., \$10; L. T., of Vt., \$15; F. J. R., of Pa., \$15; C. & G., of Ohio, \$15; M. H. S., of Ohio, \$15; W. B., of Pa., \$10; J. C., of Mass., \$25; R. R., of Mass., \$25; W. S., of N. Y., \$10; J. W. S., of N. Y., \$15; E. C. P., of N. Y., \$15; C. S., of III., \$15; T. S. S., of N. Y., \$15; E. C. P., of N. Y., \$10; E. P. H., of Ind., \$15; T. S. S., of N. Y., \$15; H. H. C., of Mich., \$15; G. U., of Mass., \$10; C. H. D., of V., \$15; A. D., of Pa., \$25; L. & P. K. D., of N. Y., \$25; U. R., & B., of Mich., \$15; G. H., of N. Y., \$25; A. S., of N. Y., \$25; N. Y., \$25; A. S., of N. Y., \$25.

Specifications and drawings and models belonging to parties with the following initials have been forwarded to the Patent Office from June 25 to Wednesday, July 2, 1862 -

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when two good drawings are all that is required to accompany the petition, specification and oath, except the government fee. PATENT CLAIMS.-Persons desiring the claim of any inven-

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