The Scientific American.

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 benefit to all parties who are concerned in new inventions.

The duration of patents granted under the new act is prolonged to SEVENTEEN years, and the Government fee required on filing an appli sation for a patentis reduced from \$30 down to \$15. Other change in the fees are also made as follows :-

On filing each Caveat\$10
On filing each application f or 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 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 law abolishes discrimination in fees required of foreigners, ex epting reference to 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 (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 paper have become identified with the whole brotherhood of Inventors paper have become identified with the whole brothermood of inventors and Patentees at home and abroad. Thousands of Inventors for whom we have taken out Patents have addressed to us most flattering testimonials for the services we have rendered them, and the wealth which has inured to the Inventors whose Patents were secured 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 and Specification Writers than are employed at present in 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.

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 reply written corresponding with the facts, free of charge. Address MUNN & CO., No. 37 Park-row, New Yor

Preliminary Examinations at the Patent Office,

The service we render gratuitously upon examining an invention does ot 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 knowledg we may acquire of a similar invention from the records in our Home Office. But for a fee of \$6, accompanied with a model or drawing and description, we have a special search made at the United States Patent description, we have a special search mate at the order of the total states 1 atem Office, and a report setting forth the prospects of obtaining a Patent &c., made up and mailed to the Inventor, with a pamphlet, giving in-struction 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 6,000 such examinations have been made through this office during the past three years. Address MUNN & CO., No. 37 Park-row, N. Y.

How to Make an Application for a Patent.

Every applicant for a Patent m ust 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 fee by express. The express charge should be prepaid. Small models from The safest way to re nce can often be sent cheaper by mail. 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, i: 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.

Foreign Patents.

We are very extensively engaged in the preparation and securing Patents in the various European countries. For the transaction of this business, we have offices at Nos. 55 Chancery-lane, London: 29 Boule vard St. Martin, Paris; and 26 Rue des Eperonniers, Brussels. We think we can safely say that THREE-FOURTHS of all the European Pat-

ents secured to American citizens are procured through our Agency. Inventors will do well to bear in mind that the English law does r limit the issue of Patents to Inventors. Any one can take out a Patent there.

Circularsof information concerning the proper course to be purs in obtaining Patents in foreign countries through our Agency, the re-quirements of different Patent Offices, &c., may be had gratis upon ap-plication at our principal office, No. 37 Park-row, New York, or either of our Branch Offices.

Rejected Applications

We are prepared to undertake theinvestigation and prosecution of re-ected cases, on reasonable terms. The close proximity of our Wash ington Agency to the Patent Office affords us rare opportunities for the examination and comparison of references, models drawings, documents, &c. Our success in the prosecution of rejected cases has been great. The principal portion of our charge is generally left de-dent upon the final result.

All persons having rejected cases which they desire to have pr All persons having rejected cases which they desire to have prose-cuted are invited to correspond with us on the subject, giving a brief story of the case, inclosing the official letters, &c.

Assignments of Patents.

The assignment of Patents, and agreements between Patentees and In easing much of rates and agreements between rates leaves and manufacturers, carefully prepared and placed upon the records at the Patent Office. Address MUNN & CO., at the Scientific American Pat-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 investions 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

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 fora Caveat, under the new law, is \$10. A pam phletofadvice regarding applications for Patents and Caveats, in En glish and German, furnished grafis on application by mail. Address MUNN & CO., No.37 Park-row, New York.



J. H. P. of N. Y .- We have received your note and inclosure, and thank you for your complimentary reference to the SCIENTIFIC AMERICAN. As regards the frictional gearing for your purpose we think it an excellent feature : there are however, some purpose we that it an external trainet, that are now erel, some machines such as yours driven through the same agency; of such is Seth Bordens', made in Newark, N. J.; he does not use grooved wheels, however. We cannot tell you the size necessary as there is no work on that subject published. They will not vary greatly from the toothed wheels ; they will require to be protected from reaction to that their surfaces will remain dry and bright. It would <u>b. sccccsff</u>, obviously, to know the construction of your valve and the resistance which has to be overcome by the drivers. Experiment will demonstrate better than any other rule which sizes are most desirable. The best packing in our opinion for small stuffingboxes is an elastic gasket; that is, one having a center of india-rub her wound outwardly with cotton wick : this clings to the rod and does not require much compression. We do not know the variety you speak of. The "Practical Draughtsman" is the best work you can get for learning to draw. Farrell & Son, Fulton Street, N. Y. are the publishers. Goed drawing instruments can be had of any of the philosophical instrument dealers at a very much less price than the one mentioned by you.

O. D. M., of N. Y .- The silk from the ordinary milkweed is not adapted to the making of paper, as a substitute for rags. The fiber is too short and has but little tenacity.

T. C., of Conn.-The steamboat Daniel Drem has made 23 miles per hour for seven consecutive hours. The City of Buffelo 23 miles per nour for seven consecutive nours. The end of the Lagrand has made 23½ and 24 miles per hour for short distances on Lake Erie. Our ocean steamers have made as high as eighteen miles per hour on occasions: these however, are very rare. They do very vell to average 12 miles per hour.

M. T. & Co., of C. E.-You state that you intend to conto it at a lower level than you take off the hot air to warm your factory, but that the hot-air pipe will have to dip lower down than the et cold-airpipe; and you inquire if it will have sufficient draft. We think it will operate if you make your inlet cold-air pipe smaller than the exit hot-air pipe, so as to relieve the inlet pipe from back

E. C. M., of -of metal of any shape by the method you mention, but whether they would be good for anything is a question which would have to be determined by experiment.

H. T. W., of Ohio.-To obtain the silver from the clippings of sensitive photographic paper, first burn them, then collect their ashes, place them in a crucible with some borax, niter or carbonate of petash, and subject the crucible for about two hours to a bright red heat. The silver will then be found in the form of a me tallic button at the bottom of the crucible.

Money Received

At the Scientific American Office on account of Patent Office business, from Wednesday, December 24, to Wednesday, December 31, 1862 :-

F. M. C., of N. Y., \$20; F. S. B., of Iowa, \$20; S. H., of Ind., \$20;
M. H. F., of N. Y., \$20; C. & M., of N. Y., \$120; A. J. E., of N. Y.,
\$20; W. T. M., of Ill., \$20; H. H. E., of Conn., \$20; S. H., of Ind., \$20; W. I. M., of III., \$20; H. H. E., of Cohn., \$20; S. H., of Ind.,
\$20; B. T. B., of N. Y., \$45; T. P., of N. Y., \$20; N. A., of Cohn.,
\$20; J. P. D., of Iowa, \$20; N. F., of N. Y., \$45; G. B. M., of Fa.,
\$45; J. C. C., of Mass., \$20; P. B., of N. Y., \$15; C. W. C., of Pa.,
\$20; T. C. V., of N. Y., \$20; H. B. F., of N. Y., \$25; D. I. S., of N.
Y., \$25; L. S., of N. Y., \$15; M. & B., of III., \$30; B. & H., of N. Y., S., Of N. J., \$40; V. & P., of Mass., \$15; J. F. R., of Pa.,
 \$25; C. B. R., of Pa., \$10; W. F. Q., of Del., \$25; G. M. H., of Ill., \$25; C. B. R., of Pa., \$10; W. F. Q., of Del., \$25; G. M. H., of Inf.,
\$25; D. M., of Ind., \$10; P. J. C., of Conn., \$25; P. A. C., of Mass.,
\$25; D. C. G., of Pa., \$15; H. E. P., of Conn., \$25; B. F. C., of Mass.,
\$16; P. & G. K., of Mass., \$10; H. B., of N. J., \$30] T. H. C., of N.
H., \$15; J. D. H., of Pa., \$10; G. W. R., of Ill., \$12; S. C. H., of
Mass., \$50; J. R. S., of Va., \$25; S. & B., of N. Y., \$75; A. T., of
Wis, \$15; P. M'g. Co., of Conn., \$60; J. R. S., of Pa., \$15; J. A., of M. Y., \$25; J. E., of Cenn., \$15; J. D. B., ef Vt., \$28; C. St. J., of Mass., \$27; A. Le B., of Paris, \$100; R. R., of Ill., \$15; B. F. A., of Iowa, \$20; C. N. B., of Pa., \$25; C. Van N., of Mass., \$30; J. H., of Maine.

Pa., \$25; T. S. D., of N. J., \$315; L. O. C., of Pa., \$50; H. L. C., of N. Y., \$25; F. W. G., of N. Y., \$15, G. S., of N. Y., \$25; T. W. B., of J., \$25; R. W., of N. Y., \$25; J. R. D., of Wis., \$15

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, and in-form us 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 Diffice from December 24, to Weinessay, December 31, 1862; H. B. F., of N. Y.; D. I. S., of N. Y.; L. S., of N. Y.; L. A., of

Cal; W. J. S., of N. J.; J. A., of N. Y.; T. W. B., of N. J.; Q. & L., of Del.; P. J. C., of Conn.; P. A. C., of Mass.; T. D. L., of N. H.; J. F. R., of Pa.; H. E. P., of Conn.; H. B., of N. J.; P. & G. K., of $\begin{array}{c} \textbf{M}_{1}, \textbf{M}_{2}, \textbf{M}_{2}, \textbf{M}_{3}, \textbf{M}_{4}, \textbf{M}_{5}, \textbf{M}_{5}$ G., of N. Y.; S. C. H., of Mass. (2 cases); J. A., of N. Y.; C. St. J., of Mass.; H. L. C., of N. Y.; J. R. S., of Va.; L. O. C., of Pa. (2 cases.)

RATES OF ADVERTISING.

Twenty-five Cents per line for each and everyinsertion, pay ble in advance. To enable all to understand how to compute the amount they must send in when they wish advertisements inserted, we will explain that ten words average one line. Engravings will not be ad-mitted into our advertising columns; and, as heretofore, the publish-ers reserve to themselves the right to reject any advertisement they may deem objectionable.

may deem objectionable. The paper for the times! Maore's Roral New Yorker, the Leading and mest Popular Farm and Firesite Journal in America, will enter upon its Fourteenth Vear and Yolume in January, 1963. In all the essentials of a first-class Agricultural, Horticultural, Literary and Family Newspaper, combined, the Narol kas leng been prenounced, by both Press and People the best of its class, and the immemse circulation it continues to maintain thronghout the Leyal States, Canadas, &c., proves that the War for the Un on has not diminished its standing or popularity. Our aim will be in the future, as it ever has been in the past, to make it superior in all respects, and unques-tionably the most useful home journal publishe in America! Al-ways Leyal, Practical and Progressive, the Rural New Yorker has leng been the Pavert Agricultural and Family Weekly-largely read and ardently admired in both Town and Country. Its ample pages demprise Departments deviced is, or which treat ably and fully upon Agriculture, Architecture, Education, Literature, Horticulture, Bur News, Markets, &c., ereceive special attention-the Rural New Yorker containing Reports of the Family Circle. The News, Markets, &c., receive special attentions, Tales, are orker containing Reports of the principal Grain, Provision, Cal-fare of its tens of thousands of readers. The News, Markets, &c., reaceive special attentions and Gor-rare of use to promote the Pecuniary Interest and Home Wei-fare of and Form, Bartera, and that its Editors, Contributers and Cor-respondents strive to promote the Pecuniary Interest and Home Wei-fare of the the series, and that its Editors, Contributers and Cor-respondents strive to promote the Pecuniary Interest and Home Wei-fare of the densition of the Barral New Torker and its enters. The Mestern Corresponding Editor, Chas. D. Bragden, Esq., whose the stribute the same and New Torker has acquired for both Con-tons and Appearance. It will be published in Superior Styte--with wi

The above or any of my books sent by mail free of postage.

Licensee, a maxegina, ra. 1 Licensee TO MANUFACTURE—FISHER'S IMPROVED machine is light, strong and durable. Cutting apparatus hinged to the frame can be foiled for transportation in half a minute. The operator with one foot can raise the cutters over obstructions, thus leaving both arms at liberty to manage his team. Thirteen hundred of the above machines have been sold, and they give generalisatisfac-tion. Also Fisher's One-horse Iron Mower, weight 350 pounds, drait so pounds. It works well. Farties who wish to manufacture or pur-chase territory may address HENRY FISHER, Alliance, Ohio. 2 4*

WANTED.—A PARTNER WITH CASH CAPITAL TO introduce a valuable machine, for which Letters Patent have been obtained. Address R. O. LOWRY, Saratoga Springs, N. Y.

THE AMERICAN SHARPSHOOTER.-ILLUSTRATING practical use of Telescope as a sight for rile, artillery, &c., de-monstrating how to sight a gun, how to ascertain full of bull for all distances, how to get elevation without change of sight, how to meas-ure distances by the Telescope, elefhning rules how to strike an object at every shot; including other useful information for the gunner. Price, single copy, filty cents, on receipt to which, sent by mail free of postage. All communications and remittances to undersigned premptly attended to. DANIEL WOOD, Author and Publisher, Rochester, N.Y. 1*

PARTIES DESIROUS OF ENGAGING IN THE MANU-facture of a first-class Mower or Reaper and Mower combined, made wholly of iron and steel, with double driving wheels, hinged buger bar, and folding cutting apparatus, will find them in the suc-sessful and popular machines, "Cayuga Chief," and "Cayuga Chief, Jr." Address C. WHEELER, JR., Poplar Ridge, Cayuga county, 23*

\$60 A MONTH! WE WANT AGENTS AT \$60 A month, expenses paid, to sell our Everlasting Pencils, oriental Burners, and thirteen other new, useful and curieus articles. Fifteen circulars sent free. Address SHAW & CLARK, Biddeferd, Maine. 2 13*

\$75 A MONTH! I WANT TO HIRE AGENTS IN the every county at \$75 a month, expenses paid, to sell my new chap Family Sewing Machines. Address S. MADISON, Attred. 2 184