

ATENTS

The First Inquiry

The First Inquiry that presents itself to one who has made any improvement or discovery is: "Can I obtain a Patent?" A postitive answer can only be had by presenting a complete application for a Patent to the Commissioner of Patents.

Petition, Oath, and full Specification. Various official rules and formalities must also be observed. The efforts of the inventor to do all this business himself are generally without success. After a season of great perplexity and delay, he is usually glad to seek the aid of persons experienced in patent business, and have all the work done over again. The best plan is to solicit proper advice at the beginning.

If the parties consulted are honorable men, the inventor may safely confide his ideas to them: they will advise whether the improvement is probably patentable, and will give him all the directions needful to protect his rights.

Messrs. MUNN & CO., in connection with the publica-

rights.

Messrs. MUNN & CO., in connection with the publication of the SCIENTIFIC AMERICAN, have been actively engaged in the business of obtaining patents for over twenty years—nearly a quarter of a century. Over Fifty thousandsinventors have had benefit from our counsels. More than one third of all patents granted are obtained by this

than one third of all patents granted are equanical by the firm.

Those who have made inventions and desire to consult with us, are cordially invited to do so. We shall be happy to see them in person, at our office, or to advise them by letter. In all cases they may expect from us an honest opinion. For such consultations, opinion, and advice, we make no charge. A pen-and-ink sketch, and a description of the invention should be sent, together with stamps for return postage. Write plainly, do not use pencil nor pale ink; be brief.

All business committed to our care, and all consultations, are kept by us severe and strictly confidential. Address MUNN & CO... Fark Row, New York.

tons, are kept by us secret that straty confidental. Adress MUNN & CO.. 37 Park Row, New York.

Preliminary Examination.—in order to obtain a preliminary Examination, make out a written description of the invention in your own words, and a rough beneil or pen-and-ink sketch. Send these with the fee of \$5 by mail, addressed to MUNN & CO., 37 Park Row, and in due time you will receive an acknowledgment thereof, followed by a written report in rezard to the parentability of your improvement. The freliminary Examination consists of a special search, which we make with great care, among the models and patents at Washington to ascertain whether the improvement presented is patentable.

In Order to Apply for a Patent, the law requires that a model shall be furnished, not over a foot in any dimensions,—smaller, if possible. Send themodel by express, pre-paid, addressed to Munn & Co., 37 Park Row, N. Y., together with a description of its operation and merits. On receipt thereof we will examine the invention carefuly and advise the party as to its patentability, free of charge.

The model should be neatly made of any suitable mate-

ly and advise the party as to its patentability, free of charge.

The model should be neatly made of any suitable materials, strongly fastened, without glue, and neatly painted. The name of the inventor should be engraved orpainted uponit. When the invention consists of an improvement upon some other machine, a full working model of the whole machine will not be necessary. But the model must be sufficiently perfect to show, with clearness, the nature and operation of the improvement.

New medicines or medical compounds, and useful mixtures of all kinds, are patentable.

When the invention consists of a medicine or compound, or a new article of manufacture, or a new composition, samples of the article must be furnished, neatly put up also, send us a full statement of the ingredients, proportions mode of preparation, uses, and merits.

Rejssues,—A reissue ts granted to the original pat-

tions mode of preparation, uses, and merits.

Reissues.—A reissues granted to the original patente, his heirs, or the assignees of the entire interest, when by reason of an insufficient or detective specification the original patent is invalid, provided the error has arisen from inadvertence, accident, or mistake without any translulent or deceptive intention.

A ratentee may, at his option, have in his reissue a separate patent for each distinct part of the invention comprehended in his original application, by paying the required fee in each case, and complying with the other requirements of the law, as in original applications.

Each division of a reissue constitutes the subject or a separate specification descriptive of the pat or parts of the invention claimed in such division; and the drawing may represent only such part or parts. Address MUNN & CO., 37 Park Row, 10 rfull particulars.

Interferences.—When each of two or more persons

ECO., 3? Fark Row, for init particulars.

Interference,—when each of two or more persons claims to be the first inventor of the same thing, an "Interference" is declared between them, and a trial is had before the Commissioner. Nor does the fact that one of the particulars as already obtained a pattent prevent such an inverterence; for, although the Commissioner has no power to cancer a patent already issued, he may, if he finds that another person was the prior inventor, give him also a patent, and thus place them on an equal toother before the courts and the public

the courts and the public

Caveats.—A Caveat gives a limited but immediate protection, and is particularly useful where the invention is not fully completed, or the model is not ready, or further time is wanted for experiment or study. After a Caveat has been filed, the Patent Office will not issue a patent for the same invention to any other person, without giving notice to the Carcator, who is then allowed three months time to file in an application for a patent. A Caveat, to be of any value, should contain a clear and concled description of the invention, so far as it has been completed, illustrated by drawings when the oblect admits. In order to file a Caveat the invention, with a description in his own words. Address MUNN & CO., 37 Park Row, N. Y.
Additions can be made to Caveats at any time. A Caveat runs one year, and can be renewed on payment of \$10 a year for as long a period as desired.

Quick Applications.—When, from any reason, parked and desired.

Qnick Applications.—When, from any reason, parties are desirous of applying for Patents or Caveats, in great haste, without a moment's less of time, they have only to write or telegraph us specially to that effect, and we will make special exertions for them. We can prepare and mail the necessary papers at less than an hour's notice, if required.

prepare and mail the necessary papers at less than an hour's notice, it recuired.

Foreign Patents.—American Inventors should bear in mind that, as a general rule, any invention that is valuable to the patentee in this country is worth equally as as much in England and some other foreign countries. Five Patents.—American, English, French, Belgian, and Prussian—will secure an inventor exclusive monopoly to his discovery among one hundred and the most intelligent people in the world. The facilities of business and steam communication are such that patents can be obtained abroad by our citizens almost as easily as at home. The majority of all patents taken out by America's in foreign countries are obtained through the Soilentific American Patenta Agency. A Circular containing further information and a Synopsis of the Patent Laws of various conteries will be furnished on application to Messrs. MUNN & Co.

For Instructions concerning Foreign Patents, Reissues, Interferences, Hints on Selling Patents, Rules and Proceedings at the Patent Office, the Patent Laws, etc., see our Instruction Book. Sent free by mail on application. Those who receive more than one copy there if will oblige by presenting them to their friends.

MUNN & CO.,

No. 37 Park Row, New York City. Office in Washington, Cor. F and 7th streets.

Patents are Granted for Seventeen Years the following being a schedule offees:-
On filing each Caveat
On filing each application for a Patent except for a
design\$1
On issuing each original Patent\$2
design. On issuing each original Patent
On application for Relssue
On application for Extension of Patent
On granting the Extension
On thing a Discisimer
On filing application for Design (three and a half
years). \$11 On illing application for Design (seven years). \$12
On ming application for Design (seven years)
On filing application for Design (fourteen years)\$3 In addition to which there are some small revenue stam
in addition to which there are some small revenue-stam
taxes. Residents of Canada and Nova Scotia pay \$500 of
application

PATENT CLAIMS .- Persons desiring the claim of any invention, patented within thirty years, can obtain a copy by addressing a note to this office, giving name of patentee and date of patent, when known, and inclosing \$1 as a fee for copying. We can also furni ha sketch of any patented machine to accompany the claim, at a reasonable additional cost. Address MUNN & CO. Patent Solicitors, No. 37 Park Row, New York.

RECEIPTS.—When money is paid at the office for subscriptions, a receipt for it will be given; but when subscribers remit their money by mail, they may con-"ider the arrival of the first paper a bona-fide acknowledgment of theirfunds.

CITY SUBSCRIBERS.—The SCIENTIFIC AMER-ICAN will be delivered in every part of the city at \$4 a year. Single copies for sale at all the News Stands in this city, Brooklyn, Jersey City, and Williamsburg, and by most of the News Dealers in the United States.

Advertisements.

A limited number of advertisements will be admitted in this page on the following terms:-Seventy-five cents a line, each insertion, for solid matter; one dollar a line for space occupied by engravings.

SIX MILLING MACHINES,
Of best Makers, for sale. Address ABM. BELL'S
SON, 25 Park Row, N. Y.
1*08

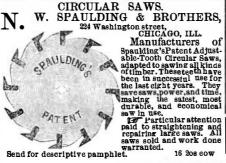
BOILER, SAFE, & RAILING-MAKERS' Shears, and Vertical Drills, address 16 30s] GREENLEAF & CO., Indianapolis, Ind.

SLATE SLABS,

Any size, shape, and thickness for sale by
HUDSON RIVER SLATE CO.
Samples, Plain and Marbielzed, shown at their office
16 40s]
25 Park Row, N. Y.

NE ERICSSON CALORIC ENGINE—24-in. cylinder, 4 horse-power—for sale very cheap.
This engine has been run but a fewmonths and is as pode of as new. Also, one new 60 horse-power Trunk Beam Propeller Engine, with Boller, Serew, and Shaft complete. 18 2001 GEO. H. SANBORN, 66 Sudbury st., Boston.

CIRCULAR SAWS



READ!! READ!

PRAIRIE FARMER Is Published WEEKLY at

CHICAGO, ILLINOIS.

The Prairie Farmer is a Family and Fireside Journal, devoted to the interests of Agriculture, Hortleulture, Markets, and the Household.

The Prairie Farmer will enter upon its Twenty-Eighth year of publication, Jan. 1st, 1866. The Prairie Farmer is the oldest and most widely circulated Rural Journal in the West.

The Prairie Farmer should be taken and read by very family in the land.

The Praire Farmer is a weekly paper of sixteen large octavo pages, and is printed on fine white paper.

The Prairie Farmer is promptly mailed to its sub-scribers every week, thus keeping its readers fully posted upon the current matters of interest of Horticulture, Ag-riculture, and Markets, etc. etc.

The Prairie Farmer is edited with great ability, and it has a large corps of special, practical, and noted Contribusors.

The Prairie Farmer is a weekly publication, and is furnished at the low pr.ce of Two Dollars per year. 135 IUMBINGUE AT REFORMER WILL BE SENT TO THE PRAIRIE FARMER WILL be sent to the end of December, 1868. to New Subscribers, who send in their names during the months of October, November, and December, marked "New," with Two Dollars, from the time the names are received.

136 The Prairie Farmer Company will give liberal Premiums to all who get up clubs—large or small.

Specimen copies sent to any address, free. ____ For full particulars-Premium list, etc.,-Address

PRAIRIE FARMER COMPANY. 164 Clark street, Chicago, 111. 16 1os]

TURBINE WATER WHEELS.



The REYNOLDS PATENT mbodies the progressive spirit of the sgc. Simplicity, Economy, Durablity, Accessibility all combined. The only Turbine that excels Overshots. Awarded the Gold Medal by American Institute.

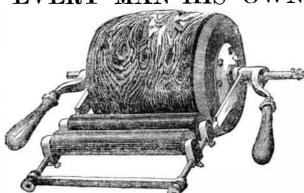
Bhatting, Gearing and Pulleys furnished for all kinds of Mills, made on Mechanical Principles, under my personal supervision, having had long experience. Circulars sent free.

GEORGE TALLCOT, 4 18*-H-ti] No. 96 LIBERTY STREET, NEW YORK.

A GENTS WANTED—\$10 to \$20 a day, to introduce our new patent Star Shuttle Sewing Machine, Price \$20. It uses two threads, and makes the genuine Look Stiton. All other low-priced machines make the Chain Stitch. Exclusive territory given. Send for circulars. W. G. WILSON & CO., Manufacturers, Cleveland, Ohio.

UN AND SEWING MACHINE Screws
of all kinds and sizes on hand and made to order by
the LAMB KNITTING MACHINE MF'G CO.,
Successor sto the
7 13°os tf] Mass. Arms Co., Chicopee Falls, Mass.

OWN GRAINER. EVERY MAN HIS



ADAM'S AIR CYLINDER GRAINING MACHINE

Gives PERFECT imitations of Oak. Walnut, Rosewood, etc., etc., and is adapted to the wants of House Paints ers, Furniture Manufacturers, Refrigerator Makers, Chair Manutactures, Coffin Makers, etc., etc. Does the best work, with the minimum of abor. Samples of its work may be seen on exhibition at the American Institute. For further particulars, see Scientific American, Aug. 3, 1867, and circulars, which may be had of the Proprietors and Manufacturers of the machine.

HEATH, SMITH & CO. 282 Pearl street.

New York.

CIRCULAR SAWS.



EMERSON'S PATENT MOVABLE TEETH.

These saws a enow in use in every State in the Union. More than one thousand, of sizes from 8 inches to 72 inches in diameter, are in operation, sawing timber of all kinds, and cutting, in some cases, 30,000 feet of inch lumber per day. Also

EMERSON'S PATENT ADJUSTABLE SWAGE.

For Spreading, Sharpening, and Shaping the Teeth. Price \$5. Manufactured by AMERICAN SAW COMPANY,

Office No. 2 Jacobstreet near Ferry street, New York
Send for New Descriptive Pamphlet, and Price List.

15 tf

EUROPEAN AGENCY for the Exhibition

CHOP EAR ACTION TO the Earlichton and sale of American Patents and Manufactures.

BLANCHARD & MCKEAN,

No. 3 Rue Sorthe, Paris, France,
Will attend personally and promptly to all business relating to the interests of American Inventors and Manufacturers in Europe. Corresponce solicited.

GEO. A. BLANCHARD.] 15 tfos [J. A. McKEAN.

THE LANE & BODLEY ATH MACHINE, iron frame, under-cut-ATH MACHINE, 1700 ITAIME, UNDER-CULting saw, roller feed without gearing, apron for returning bolt, capacity limited only by the ability of the
feeders. One boy can saw 50 lath per minute. Price, with
counter shaft and teed belts. \$200
Bolting saw, iron frame, with counter shaft. 125
Improved cut-off saw, iron frame, belted. 150
Jack for bundling lath. 25

LANE & BODLEY.

Manuf. Circular Saw-mills and Wood-working Machinery
13 40s] Cincinnatt. O.

DRAWING INSTRUMENTS

OF EVERY DESCRIPTION—
Swiss, German Silver, and French, separate and in cases—
DRAWING BOARDS, DRAWING PAPER, WATER
COLORS, TRANSITS, LEVELS, COMPASSES, etc.
And all supplies for Engineers, Architects, or Machiniste,
A Priced and Illustrated Catalogue sent free on application.

14 120s] 728 Chestnut street, Philadelphia Pa.

WHEATON'S OINTMENT cures the Itch
WHEATON'S OINTMENT will cure Salt Rheum.
WHEATON'S OINTMENT cures old Sores.
WHEATON'S OINTMENT cures all discases of the Skin.
Price 50 cents;—by mail 60 cents. All Druggists sell it.
WEEKS & POTTER, Boston, Proprietors. 114 18*os tf-N

IMPORTANT TO SMOKERS.

THE Patent on the neat little device illustrated on page 120 of this volume of the Scientific American, for perforating cigars, is offered for sale on most reasonable terms. Every cigar store, or barroom, or boarding house should have one of the instruments. They are also adapted for individual smokers. The manufacture of them must be very profitable. For rights to manufacture, address OLIVER GUINAND, Patentee, 15 2*os]

A RARE CHANCE.

TOR SALE—An Agricultural-Implement Manufactory, ten years established, with a first class reputation, in the best locality, for such business, in the United States. The Foundery, Machine Shop, Patterns, and Good Will will be sold at a bargain. For particulars, address Buffalo Agricultural Machine Works, Buffalo, N. Y.

Zur Beachtung für deutsche Erfinder.

Nach bem neuen Batent-Gesetze ber Bereinigten Staaten, fonnen Deutsche, sowie Bitrger aller Anber, mit einer einzigen Ausnahme, Batente zu benselben Bebingungen erlangen, wie Bürger ber Ber. Staaten.

Stundigungen über bie, zur Erlangung vont Batenten nöthigen Schritte, tönnen in bentscher Sprache schriftlich an uns gerichtet werden und Erfinder, welche persönlich nach unserer Office tommen warben von Deutschen prompt bedient werben.

Die Patentgefete der Vereinigten Staaten,

nebst ben Regeln und ber Geschäftsordnung ber Batentossice, und Anleitungen für die Ersinder um sich Patente zu sichern, sind in Buch-Format von uns in beutscher Sprache herungegeben, und werben gratis an alle versandt, welche darum mundlich ober schriftlich einsommen.

Man abreffire

MUNN & CO. 37 Park Row. New York.



Published Twenty-Two Years,

This paper differs materially from other publications being an Illustrated weekly paper containing 16 large pages, devoted to the promulgation of information relating to the various Mechanical and Chemical Arts, Photography, Manufactures, Agriculture, Patents, Inventions, Engineering, Mill Work, etc.

Every number contains several beautiful engravings of

All the most valuable discoveries are delineated and described in its issues, so that, as respects inventions, it may be justly regarded as an Illustrated Repertory, where the Inventor may learn what has been done before him in the same field which he is exploring, and where he may bring to the world a knowledge of his own achieve-

The contributors to the SCIENTIFIC AMERICAN are among the most eminent scientific practical men of the

Mechanics, Inventors, Engineers, Chemists, Manufactu , Agriculturists, and people in every walk of life, will find the SCIENTIFIC AMERICAN to be of great value in their respective callings. Its counsels and suggestions will save them hundreds of dollars annually, beside affording them a continual source of knowledge.

An official list of all Patents ranted, together with the claims thereof, is published weekly.

The form of the SCIENTIFIC AMERICAN is adapted for binding and preservation; and the yearly numbers make two splendid volumes of nearly one thousand quarto

Published Weekly, \$3 a year, \$1.50 half-year, 10 copies for 1 year, \$25. Specimen copies sent gratis. Address

MUNN & CO., No. 37 Park Row, New York.

JUST PUBLISHED-THE INVENTOR'S AND ME-JUST PUBLISHED—THE INVENTOR'S AND MECHANIC'S GUIDE.—A new book upon Mechanics, Patents, and New Inventions. Containing the U.S. Patent Laws, Rules and directions for doing business at the Patent Office; 112 diagrams of the best mechanical movements, with descriptions; the Condensing steam Engine, with engraving and description; How to Obtain Patents; Hintsubon the Value of Patents; How to sell Patents; Forms for Assignments; information upon the Rights of Inventors; Assignees and Joint Owners; U.S. Census by Counties, together with a great variety of useful information in regard to vatents, new inventions and scientific subjects, with scientific tables, and many illustrations, 108 pages. This is a most valuable work. Price only25 cents. Address MUNN & CO, 37 Park Row, New York.