## Scientific American.

Medical compound, J. Harrigan	133,443
Metallic grinding ring for mills, G. and H. O'Connor	
Mill and press, cider, H. and H. S. Paul Millstone feed, J. W. Anderson	
Molasses pitchers, top for, G. M. Irwin	133,317
Mole trap, T. J. Brown	
Nail machine, wrought, H. Reese Nail machines, feeding device for, J. Nolan (reissue)	
Neck tie, O. Kueppers	138,457
Nut lock, K. H. Loomis	
Oil wells, rope socket for, H. Badcock Paddle wheel, T. Shaw	
Paper folding machine, A. Washburn	133,393
Paper bag machines, pasting apparatus for, J. Arkell	
Pasteboard box, S. W. Millichamp Photographic camera, C. A. Waterbury	
Plow, S. D., D. A., and J. B. Morrison (reissue)	
Poke, horse and cattle, B. Page	
Pulley, self-lubricating, W. W. Crane Pump, S. Lane, Jr	
Pump, steam, J. C. and E. H. Dean	
Purifier, middling, E. P. Welch	133,509
Railroad track cleaner, J. Paradis, (reissue)	
Railway train brake, D. T. Perkins Refining hydrocarbon oils, Faucett and McGowan	
Refining petroleum, etc., H. M. Baker	133,399
Rivetingmachine, J. Berry.	
Rocking chair G, Gardner Rolling machine, metal, H. Kellogg 133,451, 133,452,	
Rolling mills, roll for metal, H. Kellogg	133,454
Roof, C.P. Weaver.	
Rotary engine, F. Jessop Rudderfor vessels, A. H. Murphy	
Saloon table shelf, J. R. McRae	
Sash holder, Branch and Liddell	
Sawing machine, J. P. Summers Sawing and planing machine, M. E. Tucker	
Sewing machine, W.G. Beckwith.	
Sewing machine table, G. Rehfuss	133,487
Sewing machine table attachment, J, C. Egley Sewing machine table hinge, M. C. Brinser	
Sewing machine treadle, C. H. Morgan	
Sewing machine presser foot, J. L. and D. H. Coles	
Shaft hanger, W. W. Crane	
Sheep shears, F. Van Doren, (reissue)	
Shoemaker's tool, J. E. Ober.	133,383
Show case for ribbons, etc., Gross and Ruth Shutter fastening, W. Zeiter	
Signal, ship's, Read and Nickoll.	
Sink, J. H. Coyne	133,414
Skate fastening, Hunter and Chenoweth Slop pail, J. L. Jennings	
Snot machine, J. S. Poultney	
Spark arrester, W. F. Grassler	133,436
Spinning machines, manufacture of rings for, C. E. Trowbridge	
Springs, manufacture of, W. Evans Stamp canceler, J. Goldsborough	133,435
Stationary implement, compound, H. S. Ball	133,350
Stave jointer, J. McGrew	
Steam engine, E. H. Cutler	
Steam engine, rotary, Grotz and Dennison	
Steam engine lubricator, P. W. Brewster	
Steam pressure regulator, N. C. Locke 133,459, 1 Stool, pivot, H. Earl, Jr	
Stone, etc., cutting, B. C. Tilghman	
Stripping and feed roll for burring machines, etc., J. K. Proctor	
St lky, J. A. Bilz	
Tinner's tool, A. Bingham	
Tobacco stripping and booking machine, O. Dean	133,420
Turn table, A. and H. F. Snyder 1 Umbrellas, etc, lock, S. Wales 1	
Vise, machinist's, Demmon and Diefendorf 1	
Wagon axle, E. D. Gird 1	33,433
Wagon, dumping, W. Buck 1 Wagon seat fastening, Schairer and Reimold	
Wash basin, J. Broadfoot	
Wash boiler, W. H. Lines 1	
Washing machine, O. Lonval	
Washing machine, E. Cox	
Washing machine, I. B. Stillman	
Washing machine, wool, J.K. Proctor 1	33,481
Watch escapement, P. G. Giroud 1 Watch chain hook, C. Faas, (reissue)	33,434   5,159
Water engine, J. H. Connell	
Water meter, Gray and Brittingham 1	.33,356
	33,438
Water ram, C. Hodgkins	.33,438   .33,368 ¦
Water wheel, turbine, T. J. Alcott	33,438 33,368 33,287 33,470
Water wheel, turbine, T. J. Alcott 1	33,438 33,368 33,287 33,470 33,402

#### APPLICATIONS FOR EXTENSIONS.

Applications have been duly filed, and are now pending, for the extension of the following Letters Patent. Hearings upon the respective applications are appointed for the day hereinafter mentioned: 22,835.-HARVESTER.-W. K. Miller. January 22, 1873 23,097.-MACHINE FOR CROZING BARRELS, ETC.-H. Littlejohn. Feb. 12, 1873. 23,105 .- CONSTRUCTION OF STEAM VESSELS .- J. Montgomery. Feb. 12, 1873.

	· · · · · · · · · · · · · · · · · · ·
43	EXTENSIONS GRANTED.
33	15.995.—BREECH LOADING FIRE ARM.—G. W. Morse.
76	22.213.—RAILROAD CAR BRAKE.—A. L. Whipple.
88	
17	DISCLAIMER.
07 86	15,995BREECH LOADING GUNG. W. Morse, Washington, D. C.
61   61	······
57	DESIGNS PATENTED.
24	6,269.—BILLIARD TABLE.—O. D. Benjamin, Toledo, Ohio.
90 İ	6,270NURSING BOTTLEM. S. Burr, Boston, Mass.
41	6,271.—Cooking Stove.—E. Bussey, Troy, N. Y.
93	6,272.—PRINTING TYPE.—J. M. Conner, New York city.
95	6,273.—BROOM.—G. F. Gale, Philadelphia, Pa.
30	6,274.—IRON FENCE.—C. F. and J. M. Hankey, Danville, Ill.
94	6,275.—SODA WATERAPPARATUS.—G. F. Meacham, Newton, Mass.
60	6,276Twine HolderE. J. Steele, New Haven, Conn.
34	6,277FIRE SET HOLDERE. J. Steele, New Haven, Conn.
16	6,278.—BILLIARD TABLE.—J. Syrcher, Buffalo, N. Y.
73 [	6,279BELL STAND FOR HARNESSA. E. Taylor, New Britain, Conn.
19	6,280.—CORAL BOOK STANDS. L. Westerfield, New York city.
)9	TRADE MARKS REGISTERED.
52	1.066.—SUGAR CURED HAMS.—Backman & Wilson, Cincinnatti, Ohio.
35	1,067.—COTTONGIN.—W. G. Clemons, Columbus, Ga.
26	1,068.—STOVES AND STOVE TRIMMINGS.—Culter & Proctor, Peoria, Ill.
99	1,069.—VELVET RIBBONS.—Giron Frères, St. Etienne, France.
94	1.070BACK SEAMED BOOTSI. Hall, Boston, Mass.
31 13	1,071LEATHERE. Larrabee & Sons, Baltimore, Md.
1.5	

1,072 .- ESSENTIAL OILS, ETC.-C. H. Phillips, New York city. 1,073.—ANNATTO.—L. E. Ransom, New York city 1,074.-SAWS.-Wheeler, Madden & Clemson, Middletown, N. Y.

# of Patents, alue AND HOW TO OBTAIN THEM Practical Hints to Inventors

ROBABLY no investment of a small sum of money brings a greater return than the expense incurred in obtaining a patent even when the invention is but a small one. Larger inventions are found to pay correspondingly well. The names of Blanchard, Morse, Bigelow, Colt, Ericsson, Howe, McCormick, Hoe, and હ others, who have amassed immense fortunes from their inventions, are well known. And there are thousands of others who <u>ج</u>ر ا have realized large sums from their patents.

e, More than FIFTY THOUSAND inventors have availed themselves Ŷ of the services of MUNN & Co. during the TWENTY-SIX years they have acted as solicitors and Publishers of the SCIENTIFIC AMERICAN. They stand at the head in this class of business; and their large corps of assistants, mostly selected from the ranks of the Patent Office: men capable of rendering the best service to the inventor, from the experience prac tically obtained while examiners in the Patent Office: enables MUNN & Co. to do everything appertaining to patents BETTER and CHEAPER than any other reliable agency.

HOW TO Patente. HOŴ TO

うちんのの

SP CO

11.99

This is the closing inquiry in nearly every letter, describing some invention which comes

to this office. A positive an wer can only be had by presenting a complete application for a patent to the Commissioner of Patents. An application consists of a Model Drawings, Petition, Oath, and full Specification. Various official rules and for malities must also be observed. The efforts of the inventor to do all this business himself are generally without success. After 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

#### How Can I Best Secure My Invention ?

This is an inquiry which one inventor naturally asks another, who has had some experience in obtaining patents. His answer generally is as follows, and correct

Construct a neat model, not over a foot in any dimension--smaller if po sible-and send by express, prepaid, addressed to MUNN & Co., 87 Park Row, New York, together with a description of its operation and merits. On receipt thereof, they will examine the invention carefully, and advise you as to its patentability, free of charge. Or, if you have not time, or the means at hand, to construct a model, make as good a pen and ink sketch of the improvement as possible and send by mail. An answer as to the prospect of a patent will be received, usually, by return of mail. It is sometimes best to have a search made at the Patent Office; such a measure often saves the cost of an application for a patent.

#### Preliminary Examination.

In order to have such search, make out a written description of the invention, in your own words, and a pencil, 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 regard to the patentability of your improvement. This special

£-1!

search is made with great care, among the models and patents at Washing ton, to ascertain whether the improvement presented is patentable,

#### Rejected Cases

Rejected cases, or defective papers, remodeled for parties whohave made applications for themselves, or through other agents. Terms moderate. Address MUNN & Co., stating particulars.

#### Copies of Patents.

Persons desiring any patent issued from 1836 to November 26, 1867, can be supplied with official copies at a reasonable cost, the price depending upon the extent of drawings and length of specification.

Any patent issued since November 27, 1867, at which time the Patent Office commenced printing the drawings and specifications, may be had by remitting to this office \$1.

A copy of the claims of any patent issued since 1836 will be furnished for \$1.7

When ordering copies, please to remit for the same as above, and state name of patentee, title of invention, and date of patent. Address MUNN & Co., Patent Solicitors, 37 Park Row, New York city.

MUNN & Co. will be happy to see inventors in person, at their office, or to advise them by letter. In all cases, they may expect an honest opinion. For such consultations, opinions and advice, no charge is made. Write plain; do not use pencil, nor pale ink be brief.

All business committed to our care, and all consultations, are kept secret and strictly confidential.

In all matters pertaining to patents, such as conducting interferences. procuring extensions, drawing assignments, examinations into the validity of patents, etc., special care and attention is given. For information, and or pamphlets of instruction and advice Address

#### MUNN & CO.,

PUBLISHERS SCIENTIFIC AMERICAN.

37 Park Row, New York.

OFFICE IN WASHINGTON-Corner F and 7th streets, opposite Patent Office



#### OF THE

### SCIENTIFIC AMERICAN.

The Best Mechanical Paper in the World!

A year's numbers contain over 800 pages and several hundred engravings of new machines, useful and novel inventions, manufacturing establishents, tools, and proces

The SCIENTIFIC AMERICAN is devoted to the interests of Popular Science, the Mechanic Arts, Manufactures, Inventions, Agriculture, Commerce, and the Industrial pursuits generally, and is valuable and instructive not only in the Workshop and Manufactory, but also in the Household, the Library, and the Reading Room.

To the Mechanic and Manufacturer!

No person engaged in any of the mechanical pursuits should think of doing without the SOIENTIFIC AMERICAN. Every number contains from six to ten engravings of new machines and inventions which cannot be found in any other publication.

#### Chemists, Architects, Millurights and Farmers.

The SCIENTIFIC AMERICAN will be found a most useful journal to them. All the new discoveries in the science of chemistry are given in its columns; and the interests of the architect and carpenter are not overlooked, all the new inventions and discoveries appertaining to these pursuits being published from week to week. Useful and practical information pertaining to the interests of millwrights and millowners will be found published in the SCIENTIFIC AMERICAN, which information they cannot possibly obtain from any other source. Subjects in which planters and farmers are interested will be found discussed in the SCIENTIFIC AMERICAN, many im-

provements in agricultural implements being illustrated in its columns. We are also receiving, every week, the best scientific journals of Great Britain, France and Germany; thus placing in our possession all that is transpiring in mechanical science and art in these old countries. We shall continue to transfer to our columns copious extracts, from these journals, of whatever we may deem of interest to our readers.

#### TERMS.

One copy, one year -	-		-	-	-	-	-	-		-	\$3.00	
One copy, six months	•	-	-			-	-	-			1.50	
One copy, fourmonths	14			•	-					-	1.00	
One copy of Scientific American forone year, and one copy of engrav-												
ing, "Men of Progress,"	-	-	-	-	-		-				10.00	
One copy of Scientific American for one year, and one copy of "Science												
Record," for 1873 -	-	-	-	-	-		-	-	-	-	4.50	

Remit by postal order, draft or express.

10

The postage on the Scientific American is five cents per quarter, pavable at the office where received. Canada subscribers must remit, with subscrip. ion, 25 cents extra to pay postage. Address all letters, and make all Post Office orders or drafts payable to

**MUNN & CO.**,

37 Park Row, New York.

