Scientific American.

A. S. Patent Office. How to Obtain Letters Patent NEW INVENTIONS.

Information about Caveats, Extensions, Interferences, Designs, Trade Marks; also, Foreign Patents.

For a period of nearly twenty-five years, MUNN & CO. have occupied the position of leading Solicitors of American and European Patents, and during this extended experience of nearly a quarter of a century, they have examined not less than fifty thousand alleged new inventions, and have prosecuted upward of thirty thousand applications for patents, and, in addition to this, they have made, at the Patent Office, over twenty thousand preliminary examinations into the novelty of inventions, with a careful report on the same.

The important advantages of MUNN & CO.'S Agency are, that their practice has been ten-fold greater than that of any other Agency in existence, with the additional advantage of having the assistance of the best professional skill in every department, and a Branch Office at Washington, which watches and supervises, when necessary, cases as they pass through official examination.

CONSULTATIONS AND OPINIONS FREE.

Those who have made inventions and desire a consultation are cordially invited to advise with MUNN & CO.who will be happy to see them in person at the office, or to advise them by letter. In all cases, they may expect an HONEST OPINION. For such consultations, opinion, and advice, NO CHARGE is made. A pen-and-ink sketch and a description of the invention should be sent.

TO APPLY FOR A PATENT.

A model must be furnished, not over a foot in any dimension. Send model to MUNN & CO., 37 Park Row, New York, by express, chargespaid, also, a description of the improvement, and remit \$16 to cover first Government fee, and revenue and postage stamps.

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 or painted upon it. 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.

PRELIMINARY EXAMINATION

Is made into the patentability of an invention by persona search at the Patent Office, among the models of the patents pertaining to the class to which the improvement relates. For this special search, and a report ir writing, a fee of \$5 is charged. This search is made by a corps of examiner oflong experience.

inventors who employ us are not required to incur the cost of a prelimi nary examination. But it is advised in doubtful cases.

COST OF APPLICATIONS.

When the model is received, and first Government fee paid, the drawings and specification are carefully prepared and forwarded to the applicant for his signature and oath, at which time the agency fee is called for. This fee is generally not over \$25. The cases are exceptionally complex if a higher fee than \$25 is called for, and, upon the return of the papers, they are filed at the Patent Office to await Official examination. If the case should be rejected for any cause, or objections made to a claim, the reasons are inquired into and communicated to the applicant, with sketches and explanations of the references; and should it appear that the reasons given are insufficient, the claims are prosecuted immediately, and the rejection set aside, and usually Without Extra Charge to the Applicant.

MUNN & CO. are determined to place within the reach of those who con fide to them their business, the best facilities and the highest professional skill and experience.

The only cases of this character, in which MUNN & CO, expect an extra fee, are those wherein appeals are taken from the decision of the Examiner after a second rejection; and MUNN & CO.wish to state very distinctly, that they have but few cases which can not be settled without the necessity of an appeal; and before an appeal istaken, in any case, the applicant is fully advised of all facts and charges, and no proceedings are had without his sanction ; so that all inventors who employ MUNN & CO.knowin advance what their applications and patents arc to cost.

MUNN & CO. make no charge for prosecuting the rejected claims of theirown clients before the Examiners and when their patents are granted, the invention is noticed editorially in the SCIENTIFIC AMERICAN.

REJECTED CASES.

MUNN & CO. give very special attention to the examination and prosecution of rejected cases filed by inventors and other attorneys. In such cases a fee of \$5 is required for special examination and report, and in case of probable success by further prosecution, and the papers are found tolerably well prepared, MUNN & Co. will take up the case and endeavor to get it through for a reasonable fee, to be agreed upon in advance of prosecution CAVEATS

Are desirable if an inventor is not fully prepared to apply for a Patent. A Caveat affords protection, for one year, against the issue of a patent to another for the same invention. Caveat papers should be carefully prepared. The Government fee on filing a Caveat is \$10, and MUNN & Co.'s charges for preparing the necessary papers are usually from \$10 to \$12.

REISSUES.

A patent when discovered to be defective, may be reissued by the surren der of the original patent, and the filing of amended papers. This proceed ing should be taken with great care.

DESIGNS, TRADE MARKS, AND COMPOSITIONS Can be patented for a term of years, also, new medicines or medical com-

pounds, and useful mixtures of all kinds. When the invention consists o fa medicine or compound, or a new article of manufacture, or a new compo-sition, samples of the article must be furnished, neatly put up. Also, send

Official List of Batents.

Issued by the United States Patent Office.

FOR THE WEEK ENDING JAN. 25, 1870.

Reported Officially for the Scientific American

| SCHEDULE OF PATENT OFFICE FEES: |
|---------------------------------------------------------------|
| On filing each application for a Patent (seventeen years)\$15 |
| On issuing cach original Patent |
| On application for Reissne |
| On granting the Extension |
| On alling a Disclaimer |
| On an application for Design (seven years) |
| On an application for Design (fourteen years) |
| of Canada and Nova Scotia nay \$500 on application |

On Connect and Nova Scotia pay \$500 on application.
For copy of Cluim of any Patent issued within 30 years.
A sketch from the modelor grawing, relating to such portion of a machine as the Claim Concert, from, and concerts, from, and concer

- 99,046.—CAN OPENER.—H. C. Alexander, New York city.
 99,047.—PRINTING TELEGRAPH.—M. F. Adams, Boston, assignor to E. B. Welch. Cambridge, Mass.
 99,048.—STOVEPIPE DAMPER.—Henry Baker (assignor to himself and C. G. Kerr), Lancaster, Pa.
 99,049.—ELEVATOR FOR HOISTING HUMAN BEINGS, MERCHANDISE, ETC.—C. W. Baldwin, Boston, Mass.
 99,050.—INSTRUMENT FOR PLUGGING TEETH.—M. L. Battle, Bainbridge, Ga.

- Bainbridge, Ga 99,051.—Pocket FLASK.—Arthur Tappan Becker, Cohoes
- 99,052.-VARIABLE VALVE GEAR.-George M. Bird, Dedham
- Mass. 99,053.—MILKING APPARATUS.—A. C. Black, Kaukauna, Wis Antedated Jan. 16, 1870.
- Antedated Jan. 16, 1870.
 99,054.—DEVICE FOR APPLYING BRAID TO FABRICS IN SEW-ING MACHINES.—Elei Bouscay, Jr., Norwalk, Ohio. Antedated Jan. 14, 1870.
 99,055.—SPINNING MACHINE.—Paul Bramwell, Arrow Rock, and W. C. Bramwell, Independence. Mo.
 99,056.—BED BOTTOM.—W. R. Briggs, Boston, Mass.
 99,057.—CUTTING PINCERS. Peter Broadbooks, Batavia, N. Y.

- 99,058.-SPRIND-BED BOTTOM.-A. H. Ceiley (assignor to J. B. Rardinery. Springfield, Mass. 159. — MILLING MACHINE.— Luke Chapman (assignor to the 2011ins Co.), Collinsville, Conn.
- 99,137.—JOINERS FLANE.—George Crass Mass. 99,138.—SEWING MACHINE.—Joseph Bennor (assignor to him-self and Abraham Rex), Philadelphia, Pa. 99,139.—STONE-CHANNELING MACHINE.—V. W. Blanchard, Bridport, assignor to himself and A. J. Severance, Middlebury, Vt. 99,140.—DASH BOARD FOR CARRIAGES.—J. Bland, Thomaston, 99,059—MILLING MACHINE.—Luke Chapman (assignor to the Collins Co.), Collinsville, Conn. 99,060.—WASHING MACHINE.—S. W. Clarke, New Milford, Ga.
 99,141.—PROCESS OF EXTRACTING, MANUFACTURING, AND REFINING SUGAR.—J. E. BOIVIN and D. Loiseau, Paris, France, assignor to C. F. Chandler, New York city.
 99,142.—RAILROAD TE LIFTER.—Elijah Bomar (assigner to to himself and Wm. Young), Wartrace, Tenn.
 99,143.—DESULPHURIZING OVEN.—J. C. Brewster, New York city.
- 99,061.—LIFTER FOR KITCHEN USE.—T. S. Coffin, Harring M 99,062.—MANUFACTURE OF ARTIFICIAL STONE. — François
- 59,002.—MANUFACTORE OF ARTIFICIAL STONE.— François Coiçnet, Paris, France, assignor to Coignet Agglomerate Company, Richmond, Ind.
 99,063.—PROFELLER.—Aaron Colton, Sycamore, Ill. Ante-dated Jan.12,1870.
 99,064.—MORTISING MACHINE.—John Cox, Portland, Oregon.
 99,065.—PUNCHING AND SHEARING MACHINE.—Wm. Culver, Nuclear M. J.
- Vineland, N. J. 99,066.—HORSE HAY RAKE.—N. W. Curtis, Johnsburg, N. Y. 99,067.—SEWING MACHINE.—J. A. Davis, Watertown, N. Y. Antetated Jan. 22, 1870.
- 99,068.—COFFEEPOT ATTACHMENT.—Marinus De Graff, Chi-
- caro, III. 99,069.—Explosive Agent Called "Xyloglodine."—Carl
- 99,069.—EXPLOSIVE AGENT CALLED "XYLOGLODINE."—Carl Dittmar, Charlottenburg, Prussia.
 99,070.—MANUFACTURE OF XYLOGLODINE AND OTHER EXPLO-sive AGENTS.—Carl Dittmar, Charlottenburg, Prussia.
 99,071.—MACHINE FOR DISINTEGRATING WOOD FOR PAPER PULP.—Hezekiah Dodge, Albany, N. Y.
 99,072.—SHOE FOR HORSES.—Hay Downie, Corstophine, and I. B. Harris, Edinburgh, Scotland.
 99,073.—CARPET-CLEANING MACHINE.—D. A. Drew, Phila-dolphia Pa
- elphia, Pa.
- deipnia, Pa. 99,074.—CLIP FOR ELLIPTIC SPRINGS.—Wm. Evans (assignor to himself and Wm. Coleman), Pittsburgh, Pa. 99,075.—EXTENSION-TABLE SLIDE.—Michael Fleck, Milwau-kee, Wis. 99,076.—NIGHT LATCH.—R. S. Foster, Madison, N. J.
- 99,077.—GRAVEL HEATER.—W. A. Gay, Newark, N. J. 99,078.—CARTRIDGE.—Edwin Gomez, New York city. 99,079.—CARTRIDGE.—Edwin Gomez, New York city.

- 99,080.—CORK EXTRACTOR.—Charles Gooch, Cincinnati, Ohio. Antelated Jan. 17, 1810. 99,081.—STILL FOR HYDROCARBONS AND OTHER SUBSTANCES. -John Gracte, Pittsburgh, Pa.
- 99,082.—PORTABLE LUBRICATOR.—Henry Hammond, Hart
- 99,083.—FORTABLE HUBRICATOR. HUBR
- 99,086.—COMBINED BASE KNOB AND DOOR FASTENER.—H.H
- 199,086.—COMBINED BASE KNOB AND DOOR FASTENER.—H.H. Hesktt and M. E. Ferguson, McLean county, III.
 199,087.—STEP FOR SPINDLE TO SPINNING MACHINES.—J. P. Hillard, Fall River, Mass.
 199,088.—MANUFACTURE OF COMPOSITION ROOFS.—C. F. Hin-mau, Chicago, III.
 199,089.—COMBINED HARVESTER AND THRASHER. David Howell, St. Helena, assignor to himself and Charles A. Lowe, San Fran-cisco, Cal.
 CORDINGE LAGY. Thomas W. Labarater, P. 1
- 99,090.—CARRIAGE JACK.—Thomas W. Johnston, Richmond
- 99,091.-BASE-BURNING STOVE.-John H. Keyser, New York
- 99,092.—COAL STOVE.—J. H. Keyser, New York city.

99,109.-DEVICE FOR BAKING BREAD.-A. I. Quackenbush and

Guilford Hawn, Fort Plain, N. Y. 99,110.—SAW HANDLE.—William W. Richardson, Chicago

- 99,111.—BOBBIN HOLDER.—John Salisbury, Scituate, R. I.
- Antedated Jan. 14, 1870. 99,112.—FIELD FENCE.—David Sattler, Mifflin, Ohio.

- 99,113.—SLOTTING TOOL HOLDER.—William Seaton, Putnam

- Conn. 99,114.—ONE-WHEEL SULKY.—James A. Sinclair, Woodsfield, Ohio, assignor to himself and Charles Messerly. 99,115.—PADLOCK.—F. W. Smith, Jr., Bridgeport, Conn. 99,116.—PADLOCK.—F. W. Smith, Jr., Bridgeport, Conn. 99,117.—SAFETY STOP FOR WATCHES.—S. C. Smith, Boston, Mass.
- Mass.
 99,118.—COMBINED PLOW, PLANTER, AND CULTIVATOR.— T. J. Smith, Holly Springs, Miss.
 99,119.—VEGETABLE AND FRUIT PARING KNIFE.—Henry Soggs, Columbus, Pa.
 99,120.—HORSE HAY FORK.—George N. Stearns, Syracuse, \$30 \$50 \$50 \$10 . \$10 . \$15 . \$30
 - N.Y. 99,121.—HEDGE TRIMMER.—J. M. Van Nosdall and O.W.Van

 - 99,127.—Toy PROPELLER. Arthur M. Allen, New York

 - city. 99,128.—APPARATUS FOR PULVERIZING PORCELAIN PASTE. -J. R. Alsing, Newcastle-upon-Tyne, England. Patented in Sweden, Abril, 20, 1867. 99,129.—PEAT AUGUR.—Aime Nicholas Napoleon Aubin, Montreal, Canada. 99,130.—PEAT-MOLDING MACHINE.—A. N. N. Aubin, Mon-

 - 99,131.—SAWING MACHINE.—Louis Bach and L. C. Christlip, Titin, Ohio. 99,132.—CHEESE PRESS.—Albert G. Bagg, Holland Patent,
 - 99,133.-SHEET GAGE FOR PRINTING PRESS.-Henry Barth,
 - Cincinnat, Ohio. 99,134.—FOUNTAIN PEN.—G. A. Becker, Seymour, Conn.
 - 99,135.—REVOLVING STEREOSCOPE. Alexander Beckers, 99,130.—NEVOLVING DIENECOULL. New York city. 99,136.—STEREOSCOPE.—Alexander Beckers, New York city 99,137.—JOINERS' PLANE.—George Cyrus Beckwith, Boston,

99,144.—CASTING HOLLOW CYLINDERS.—J. W. Brittin, Black

Rock, Conn. 99,145.—MANUFACTURE OF INSULATORS FOR TELEGRAPH

Poles.-Homer Brooke, New York city. 99,146.-CORSET SKIRT SUPPORTER.-J. W. Brooks, Boston,

Mass.
99,147.—INK-RETAINING ATTACHMENT FOR PENS.—Albert G Brown. Hartford, Conn.
99,148.—WEIGHING SCALE.—Dennis Buoy, Danville, Pa.
99,149.—DIE PRESS.—Wm. Burke, Brooklyn, N. Y.
99,150.—MILK PAN.—N. C. Burnap, Argusville, N. Y.
99,151.—CURTAIN AND MAP FIXTURE.—J.W. Burns, Medway, Obto

99.152.—Shuttle for Looms.—W. H. Burns, Grafton, as-

59,152.—SHOTTLE FOR LOOKS.—W. H. Burns, Gratch, as signor to JonathanLuther, Worcester, Mass.
99,153.—STEAM GENERATING HEATER.—C. A. Buttles, Milwaukee, Wis.
99,154.—IMPLEMENT FOR SLITTING AND JOINING RAGS FOR CARPETS.—B.F. Cady, Chittenango, N.Y.
99,155.—MORTISING MACHINE.—M. E. Campfield, Newark, N.J.

99,156.-HANGER FOR SHAFTING.-W. W. Carey and G. W.

Harris, Lowell, Mass. 99,157.—PLANING MACHINE.—W. W. Carey and G.W. Harris, Lowell, Mass. 99,158.—NEEDLE AND ARM FOR SEWING MACHINE.—Mary

99,150.—ALEDDE AND HAM FOR SEWING MACHINE. ANA P. Carpenter, San Francisco, Cal. 99,159.—AUTOMATIC BARREL FILLER.—S. C. Catlin, Cleve-land, Ohio. 99,160.—MACHINE FOR REMOVING THE "BLOW OVER" ON

99,160.—MACHINE FOR REMOVING THE "BLOW OVER ON GLASS JARS, FTC.-John Chambers (assignor to himself and D. Chambers), Birminghem, Pa.
99,161.—Teerri BRUSH.—R. K. Chandler, Ruther Glen, Va. Antedated Jan. 17, 1370.
99,162.—CHIMNEY COWL.—L. N. Chapin, New Lisbon town-obin N. V.

ship, N.Y. 99,163.—SHOEMAKERS' TOOL.—J. A. Clippinger, Newtown,

109,165.—BIRD CAGE.—G. F. J. Colburn. Newark, N. J. 99,164.—BIRD CAGE.—G. F. J. Colburn. Newark, N. J. 99,165.—RAILROAD RAIL AND BASE PLATE.—Watts Cooke,

Peterson, N. J. 99,166.—VELOCIPEDE.—J. A. Crandall, Brooklyn, N. Y. 99,167.—SHEET GAGE FOR PRINTING PRESSES.—G. B. Cum-

99,169.-PLATFORM SCALE FOR HAY OR CATTLE.-Daniel H

Dewey, Canton, III. 99,170.—SoDA FOUNTAIN.—G. D. Dows (assignor to himself and C. Dows), Boston, and G. S. Cushing, Lowell, Mass. Antestated Jan. 12, 180.

12, 1870. 99,171.—WATER-PROOF FABRIC.—T. M. Drown (assignor to W. A. Drown), Philadelphia, Pa.

99.172.—FLEXIBLE JOINTS FOR WATER PIPES.—M.C. Duffey,

99,164.—CHEESE CUTTER.—G. W. Cushman, Aiken, S. C.

a full statement of the ingredients, proportions, mode of preparation, uses, and merits.

PATENTS CAN BE EXTENDED.

All patents issued prior to 1861, and now in force, may be extended for a period of seven years upon the presentation of propertestimony. The extended term of a patent is frequently of much greater value than the first term; but an application for an extension, to be successful, must be carefullyprepared. MUNN & Co. have had a large experience in obtaining extensions, and are prepared to give reliable advice.

INTERFERENCES

Between pending applications before the Commissioners are managed and testimony taken; also, Assignments, Agreements, and Licenses prepared. In fact, there is no branch of the Patent Business which MUNN & Co. are not fully prepared to undertake and manage with fidelity and dispatch.

FOREIGN PATENTS.

American inventors should bear in mind that five Patents-American, English, French, Belgian, and Prussian-will secure an inventor exclusive monopoly to his discovery among ONE HUNDRED AND THIRTY MILLIONS of 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. MUNN & Co. have prepared and taken alarger number of European Patents than any other American Agency They have Agents of great experience in London, Paris, Berlin, and other Capitals. A A Pamphlet, containing a synopsis of the Foreign Patent Laws, sent free.

Address MUNN & CO., 37 Park Row. New York.

Washington, D. C. 99,173.—EGG BEATER.—Timothy Earle, Valley Falls, R. I. 99,093.—GRAIN SEPARATOR.—Dennis Ladd, Chicago, III. 99,094.—MODE OF PREPARING SEED FOR PLANTING.—Henry -BRICK KILN.-99,175.—RECTIFYING WHISKY DURING DISTILLATION.—H. Fake, Williamsburgh, N. Y., assignor to himself and C. A. Todd, New Tork city. 99,174.-Wm. Ennis. Philadelphia. Pa. Lassing, New York city. 99,095.—BLACKING BRUSH.—George W. Lishawa, Cincinnati, Yorkelty. 99,176.—HARNESS-OPERATING MECHANISM FOR LOOMS.—G S. Faulkner, Indianapolis, Ind. 99,177.—LOOM.—G. S. Faulkner, Indianapolis, Ind. 99,178.—KEY-HOLE GUARD AND PROTECTOR.—H. M. Flana-gin (assignor to himself and J. R. Elkinton), Penn's Grove, N. J. 99,179.—LEVER AND STUMP PULLER.—J. G. Fox, Oregon, Wis. Ohio. 99,096.—VELOCIPEDE.—R. E. Lowe, Upper Alton, Ill. Antelated Jan. 9. 187 attet Jan. 3, 101.
99,097. — HYDRANT. — J. R. Manny, Chicago, A. Jan 15, 1870.
99,098. — MILKING STOOL. — Ephraim Martin and Samuel M. Chittenden (assignors to Daniel D. Chittenden), Baldwinsville, N. Y.
99,099. — CORD-MAKING MACHINE. — James McIntire, Hopewell Cotton Works, Pa., assignor to W. C. Dickey. Antedated January 14, 1970. Wis. 99,180.—PRESERVING MEAT.—Henrik Gahn, Upsala, Sweden. Annual T. Morgans, Youngs oon. 99,102.—DITCHING MACHINE.—G. W. Nevill, Richmond, Va. 99,103.—SOLDERING Machine.—J. P. Newell (assignor to himself, Solomon Washburn, and C. R. Otis), Chicago, II. 99,104.—TABLE CUTLERY.—J. H. Nichols and W. Bower (as-signors to Beaver Falls Cuttery Company), Beaver Falls, Pa. 99,105.—METHOD OF FIXING PIGMENTS TO FIBROUS AND TEX-TILE MATERIALS.—Alfred Paraf, New York city. 99,106.—CORN SHELLER.—William P. Patton and William A. Mideleton, Harrisburg, Pa.; said Patton assigns his right to said 99,103.—HARVESTER RAKF 99,108.—HARVESTER RAKF 99,187.—SLATE FRAME.—Wm. Hersee, Buffalo, N. Y.
 99,106.—CORN SHELLER.—William P. Patton and William A. Mideleton, Harrisburg, Pa.; said Patton assigns his right to said 99,188.—PACKING CASE FOR TOBACCO.—S. F. Hess, Rochester, N.Y.
 99,107.—COOLING APPARATUS.—Charles F. Pike, Providence R. I.
 99,108.—HARVESTER RAKE.—William Pimlott, Springfield, Ohio.

99,192.-BATTERIES FOR ELECTROTYPING.-P. S. Hoe, New 99,193.—AIR PUMP.—J. W. Hopkins (assignor to himself and

- Wn. H. M. Pye, Brooklyn, N. Y. 99,194.—WAGON BRAKE.—C. M. Howell, Andover, N. J.
- 99,195.-RAILWAY CAR AXLE.-Frank Hudner, New York
- 99,196.-HOLDBACK FOR CARRIAGES.-Jameson Hunlock,
- Wyoming Valley, Pa. 99,197.-WINDOW SCREEN.-D. N. Hurlbut, Chicago, Ill. 99,198.-GRAIN DRILL AND BROADCAST SOWER.-Joseph
- Ingels, Milton, Ind. 99,199.—FRICTION CLUTCH.—Simon Ingersoll, Brooklyn, N.Y.
- 99,200.—PAPER PAN, BOWL, BOX, AND DISH.—J. W. Jarboe reen Point, N. Y
- Green Point, N. Y. 99,201.—METIGOD FOR WOOD-WORKING.—Nicholas Jenkins, New York city. Antestated Jan. 14, 1870. 99,202.—VARIETY MOLDING MACHINE.—Nicholas Jenkins, New York city. Antestated Jan. 14, 1870. 99,208.—RING SPINNING FRAME.—B. H. Jenks, Bridesburg,

- PA.
 99,204.—PERFORATED CIGAR BOX.—Ralph S. Jennings, New York city, assignor to himself and C. F. Jones, Woodside, N. J.
 99,205.—MILL FOR GRINDING CORN, ETC.—J. J. Johnston, Allegheny, Pa., assignor to himself and John Lockie, Washington, D.C,
 99,206.—CHURN.—J. B. Johnston, St. Matthews, Ky.
 99,207.—SLEIGH.—C. P. Kimball, Portland, Me.
 99,208.—CULTIVATOR.—J. G. Knapp, Madison, and Sam. D. Libby, Blooming Grove, Wis.
 09 909.—MACHUSE FOR BOUNDING SHOT —Charles Kochley.
- Libby, Blooming Grove, Wis. 99,209.—MACHINE FOR ROUNDING SHOT.—Charles Koehler,
- 99,210.—MACHINE FOR ROUNDING SHOT.—Charles Acceler, Rostelare, III. 99,210.—RAILWAY CAR WHEEL.—A. Komp, New York city. 99,211.—MAGIC LANTERN.—A. Kruss, Hamburg, Germany. 99,212.—CLAMP.—J. S. Ladow, Mechanicsville, N. Y.

- 99,213.—SADIRON HEATER.—Elliot Lewis, Lockport, N. Y.
- 99,214.—DEVICE FOR DESTROYING INSECTS.—Wm. H. Lewis, New York, assignor to R. A. Lewis, Brooklyn, N. Y. Antedated Jan. 21, 1870.
- 99,215.—COFFEE CLEANER AND POLISHER.—H. C. Lockwood
- Baltimore, Md. 99,216.—NON-CORROSIVE METALLIC ROOFING.—O. T. May, Canastota, N. Y. 99,217.—SEED PLANTER.—Noah Mendenhall, Greensburg,
- 99,218.-STONE PLANING MACHINE.-A. T. Merriman, Chi-
- 99,219.— IRONING TABLE.—Samuel Merritt, Erie, Pa.
- 99,220.—STEAM ENGINE GOVERNOR CUT-OFF.—George Milbank, Chilliothe, Mo. Antestated Jan. 14, 1870.
 99,221.—ROLLING MILL.—James Montgomery, New York city.
 99,223.—POWER LOOM.—T. H. Muller, New York city.

- 99,224.—Pocket-Safe for Friction Matches.—J. S. Nor
- ton, Hartford, Conn. 99,225.—BASE BURNING STOVE.—F. Z. Obermeyer and Wm.
- 59,220.—DASE DURNING STOVE.—F. Z. Obermeyer and Win. Halle, Milwaukee, Wis. Antedated Jan. 20,1870.
 99,226.—ADDING MACHINE.—Homer Parmelee (assignor to E. D. Peck), Philadelphia, Pa.
 99,227.—POST AUGER.—H. C. Partridge and James Preston, Bainbridge, N.Y.
 99,900. How outp. CONTON DURGE. I. N. Better and D. (1996)

- Bainbridge, N. Y.
 99,228.—HAY AND COTTON PRESS.—I. N. Patten and D. G. Marden, Memphis. Tenn.
 99,229.—PAINT OR COATING FOR ROOFS.—D. D. Pennoyer (assignor to himself and A. H. Brooks), Colebrook, N. H.
 99,230.—AUTOMATIC WAGON BRAKE.—S. J. Pickerill and F. M. Pickerill, Indianapolis; Ind.

- 99,231.—Apparatus for Raising and Lowering Weights.
- -Jonathan Pickering, Stockton-on-Tces, England. 99,232. SPRING NUT. D. R. Pratt, Worcester, Mass. 99,233. ELECTRO-MAGNETIC RAILROAD SWITCH ALARM.-
- 9,334.—LOW-WATER INDICATOR AND FEED-WATER REGU-LATOR.—Robert Berryman, Pulladelphia, Pa. 99,235.—WASHING MACHINE.—Thomas Rees, Judson, Minn.
- 99,235. WASHING MACTINE. Thomas Rees, Judson, Minn.
 99,236. PULVERIZING ATTACHMENT FOR PLOWS. Anthony A. Rhoades and Wiley Tash, Berlin, Ill.
 99,237. SHINGLE MACHINE. C. F. Rice, Brookfield, Mass.
 99,238. GRAIN DRILL FEED. J. L. Ritter, Liberty, Ind.
 99,239. COTTON BALE TIE. J. W. Rogan, Memphis, Tenn.
 99,240. PRESERVING BUTTER. J. F. Saiger, Shelby, Ohio.
 99,241. MANUFACTURE OF DOOR KNOBS, UMBRELLA HANDERE MODER ADERGERS, WING SAMERSON, JAMES AND COMPARISON.

- 59,541.—MANUFACIONE OF DOOR THORS, UMBREDER THORSON, DES, AND OTHER MOLDED ARTICLES.—WM. Sanderson and James J. De Barry, New York city.
 99,243.—NECK YOKE.—C. S. Sanford, Lena, III.
 99,244.—LIFTING JACK.—Benj. Schopf and Christian Schopf, Pittshurg. Ind.

- Pittsburg, Ind. 99.245.—ANIMAL TRAP.—H. Seehausen, Memphis, Tenn. 99,246.-TABLE.-T. J. Shannon, Lawrenceburg, Ind.
- 99,247.-SHOVEL HANDLE.-John L. Shaw, Grand Rapids,
- 99.248.—MANUFACTURE OF PARCHMENT PAPER.—Alexander J. Sheldon (assignor to Colin Campbell), Buffalo, N.Y. 99,249.—CARRIAGE SPRING. — Carr Sheldon, Middleburg,

- N.Y.
 99,250.—PROCESS FO RENDERING LARD, Middleburg, OTHER FATS.—Amor Smith, Baltimore, Md.
 99,251.—PROCESS FOR TREATING FISH TO OBTAIN OILS AND FORTLIZERS.—Amor Smith, Baltimore, Md.
 99,252.—APPARATUS FOR RENDERING FATTY ANIMAL MATTER.—Amor Smith, Baltimore, Md.
 99,253.—PROCESS FOR RENDERING RANCID ANIMAL FATS, AND FOR DISINFECTING THE GASES EVOLVED.—Amor Smith, Baltimore, Md.
 90,253.—PROCESS FOR RENDERING RANCID ANIMAL FATS, AND FOR DISINFECTING THE GASES EVOLVED.—Amor Smith, Baltimore, Md.
- 99.254.--APPARATUS FOR PRESERVING AND FREEZING.-
- 30,304.—A PARATOS FOR TRESERVICE AND TRESERVICE
 30,255.—FERTILIZER.—I. W. Speyer, Hamburg, Germany.
 39,256.—BINDING ATTACHMENT FOR HARVESTERS.—Benjamin W. Squires and Charles M. Clinton (assignors to Sewell D. Thompson and David F. Goodhue), Ithaca, N. Y.
 39,257.—RAILWAY CAR BRAKE.—Joseph Steger, New York of the state of the state
- 99,258.—CLECK CALENDAR.—Wm. A. Terry, Bristol, Conn.
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REISSUES.

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 B12.—PRINTING TELEGRAPH.—Gold and Stock Telegraph Company, New York city, assignees, by mesne assignments, of Henry N. Baker.

DESIGNS.

- 3,820.—CARRIAGE BODY.—Abel S. Clapp, New York city. 3,821.—WRENCH.—A. Kindermann, Cleveland, Ohio. 3,822.—SCABBARD.—Virgil Price, New York city. 3,823 to 3,826.—DOOR ESCUTCHEON.—Joseph A. Ruff, Somer-ville, Mass., assignor to the Russell & Erwin Manufacturing Company. New Britain, Conn. Four Patents.

EXTENSIONS.

- MACHINE FOR HEADING BOLTS.—William S. Booth, New Britain, Conn., administrator of H. M. Clark, deceased.—Letters Patent No. 14,056, dated January 15,1856.
 PLOW.—Benjamin F. Avery, Louisville, Ky.—Letters Patent No. 14,044, dated January 8, 1856.
 HORBE HAY RARES.—Mary G. Pratt, administratrix of Randal Parat, deceased, hit of Marple township, Pa.—Letters Patent No. 40,067, dated January 8, 1856; reissue No. 1,833, Dated February 28 1866.

- 1865. HORSE HAY RAKES.—Mary G. Pratt, administratrix of Ran-dal Pratt, deceased, late of Marple township. Pa.-Letters Patent No. 40,067, dated January 8, 1856; reissue No. 1,394, dated February 28, 1865.
- HORSE HAY RAKES.—Mary G. Pratt, administratrix of Ran-dal Pratt, deceased, late of Marple, township, Pa.-Letters Patent No. 46,007, dated January 8, 1856; reissue No. 1,895, dated February 28, 1865.
- 1865. APPARATUS FOR HEATING BUILDINGS BY STEAM.—Stephen J. Gold, West Cornwallis, Conn.—Letters Patent No. 14,155, dated Janu-ary 29, 1856. VALVE GEAR FOR STEAM ENGINES.—Charles H. Brown and Charles Burleigh, Fitchburg, Mass.—Letters Patent No. 14,125, dated January 15, 1856; reissue No. 2,754, dated August 27, 1867.

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