

Facts for the Ladies.

Mrs. Bartlett, of Black River Falls, Wis., has made, with one " Wheeler & Wilson" needle, six hundred pairs of heavy canvas pants, worn by loggers, earning, within two years, upward of six hundred dollars, besides doing the work for her own and other families.

Recent American and Foreign Patents.

Under this heading we shall publish weekly notes of some of the more prominent home and foreign patents.

LOCK AND LATCH.—Charles Godfrey Gumpel, Leicester Square, London, England.—This invention consists in the application of pins or sliders, of any suitable section, passing through the bolt or bolts, or sliding piece or pieces, acting on the bolt or bolts, and a fixed piece or bolt guide, or pieces or guides, in or on which the bolt or bolts, or sliding piece or pieces, moves or move.

COTTON-SPINNING MACHINE.—E. M. Greeson, Americus, Ga.—This invention comprises an arrangement of a number of hoes or scrapers, at suitable intervals, in a row suspended from a beam or frame, provided with guiding handles and connected at right angles to another frame mounted adjustably on one wheel, to the front of which latter frame the animal is to be hitched for drawing the same across the rows of plants.

DITCHING MACHINE.—J. W. McGehee, Fayetteville, Texas.—This invention consists essentially of a boring or ditching auger, suspended from the frame of a truck, and having an enlarged head projecting in advance of the truck, and rotated so as to bore out a groove as the truck is moved along, securing the earth taken back through a trough to an elevator, which carries it up to a spout chuting it to one side.

COMBINED STOVE PIPE, SHELF, AND CLOTHES HORSE.—W. C. Burnham, Blooming Grove, N. Y.—This invention relates to an improved stove pipe attachment, for use as a stove pipe, shelf, and clothes horse, or frame, for holding clothes around the pipe for drying while serving as a shelf; also, for holding vessels containing food to be kept warm.

AX.—Ernest Quast, Freedom, Mo.—This invention consists in making the polls in two parts, divided in the plane of the cutting edge, and shaped so that when put together and joined by rivets, a groove will be formed dovetailed at the base, for holding the bits which are fitted to it, so that a part of the rivets will pass through the tongues fitted to the said grooves.

FILTER RACK.—E. C. Andrews, Seneca Falls, N. Y.—This invention relates to improvements in racks for chemists' use, in supporting the funnel-shaped paper filters used by them for filtering liquids, and it consists of a skeleton frame, made of wire or other suitable substance, and so arranged as to expose the greatest possible amount of the surface of the paper to the air while filtering, or to prevent the contact of the paper with the side of the common funnel when used for straining into a bottle, by placing the rack in the said funnel.

WATER WHEEL.—Denison Chase, Orange, Mass.—This invention consists in an improved form of the buckets and of the bottom of the wheel, calculated to facilitate the discharge of the water, and to obtain a greater percentage of power by the said discharge. The invention also comprises an improved arrangement of the gate, and the supports and adjusting devices of the bridge tree, which improvements are also applicable to other wheels.

COMBINED CANE, UMBRELLA, AND SEAT.—Gillespie Sweeney, New York City.—This invention relates to an improved cane, seat, and umbrella combined together in one article, in an arrangement capable of adjustment for use in the capacity of either one of the said articles, and consists of a sheath answering for the cane, divided into three parts, and inclosing in one part the umbrella from the point below the lower ends of the ribs when folded, the stock is enlarged at this point and provided with ribs, braces, and a web of canvas stretched across the ends of the ribs, which spread out similarly in some respects to the umbrella, and form a seat when the top is placed on the ground; this latter part is inclosed within the part of the sheath forming the handle, which is divided longitudinally from the top down and hinged to the aforesaid enlargement of the stock. These two parts fasten together with a strong cord.

WINDING AND SETTING ATTACHMENT FOR WATCHES.—Charles Spiro New York City.—This invention comprises the attachment to the fusee of a ratchet clutch permanently fixed to it, and a drum carrying a movable clutch and a gear wheel, to which a folding handle of peculiar construction is connected, whereby the movable clutch may be pressed down into gear with the fixed clutch, and the latter turned to wind the watch, or the movable clutch is moved up out of connection with the other, so as to turn independently of it, at the same time bringing the toothed wheel into gear with a train of gears connecting with the hands for setting.

COOKING STOVE.—James Grimes, Portsmouth, Ohio.—This invention relates to new and useful improvements in cooking stoves, and consists in the arrangement of the flues beneath and back of the oven, and in the divided cross center and in air tubes.

CAR COUPLING.—John D. Kerrison, New York City.—This invention relates to a new and useful improvement in couplings for railroad cars, whereby many of the objections to ordinary car couplings are obviated.

WASHING MACHINE.—Herrmann Cramer, Sonora, Cal.—This invention relates to a new and useful improvement in machines for washing clothes, and consists in a hollow revolving cylinder with open rim, serrated on its inner surface, placed in a suitable tub with a heating furnace connected therewith.

THILL COUPLING.—W. H. Cox and Theophilus Larouche, Williamstown, Y.—This invention relates to a new and useful improvement in devices coupling thills to buggies or other vehicles.

UMBRELLAS AND PARASOLS.—Miss Maggie Clyde, Brady Post Office, Pa.—This invention consists in making the staff of the umbrella or parasol in sections jointed together, and in a gutter around the rim of the umbrella, for conducting the water to, one point, with a single opening for its discharge.

SELF SUPPORTING GATE.—J. R. Davis, Covington, Ga.—This invention relates to a new and useful improvement in the method of hanging and supporting farm and other gates.

TUBE WELLS.—Asa Waters, Mobile, Ala.—This invention relates to a new and useful improvement in "Tube," or "Drive wells," and consists in covering the perforated well tube with wire cloth, and in protecting the wire cloth covering with a perforated metallic shield.

WATER ELEVATOR.—G. W. Dickerson, Prairietown, Ind.—This invention relates to new and useful improvements in the method of raising water from wells and cisterns.

COMBINATION ENVELOPE OPENER.—C. B. Stevens, Riverton, Conn.—This invention relates to a new and useful improvement in an instrument for opening the envelopes of letters, public documents, etc., and consists in a peculiarly formed cutting blade and handle, and combining these with an ink and lead eraser.

TURBINE WATER WHEEL.—Philip O. Palmer, Swoope's Depot, Va.—The object of this invention is to save the water, and to improve the construction of the gates so that they can be more easily operated and adjusted than heretofore.

COMPOSITION FOR DESTROYING INSECTS ON FLOWERS, PLANTS, ETC.—John Ahearn, Baltimore, Md.—This invention consists of a composition for destroying insects on flowers, plants, vines, and bushes. It is made in liquid form and applied by sprinkling, either with a wisp of hay or a watering pot.

THILL COUPLING.—Cyrus Fisher, Canton, Mass.—This invention has for its object the fastening of the thills of a carriage to its forward axle, so that they can be readily and easily detached, when desired, and it consists in a strap bolt attached to the rear end of each of the thills and fitting a hole in a trunnion block, which is confined between clips on the axle, the said strap bolt having a screw-threaded end, by means of which and a nut, casual detachment of the thills is prevented.

FILE.—Albert Thompson, Norway, Maine.—This invention consists in making a file with two sets of teeth on opposite sides, one set inclined in a direction the reverse of the other, in order that when a stroke in one direction has been made, the file may be turned over, and a return cutting stroke be made with it, thus very much expediting the labor of filing a saw or other article.

SCROLL-SAWING MACHINE.—William Oller, Scenery Hill, Pa.—This invention consists in making a saw in a frame consisting of two pairs of metallic levers, one pair at each side of the saw, said levers having their fulcrum at the top and bottom of vertical metallic bars, placed one at each side the saw, and said levers being connected with the lower pair at their outer ends by means of extensible rods, by which the frame may be tightened or loosened at pleasure, and is made at once strong, flexible, and elastic, so as to admit of all the necessary movements of the saw.

ELEVATED OVEN RANGE.—Philip Rollhaus, Portchester, N. Y.—This invention relates to a new manner of arranging the pipes between the water-back and the boiler, with an object of allowing them to be made with a short turn to enable the use of brass pipes.

CORN SHELLER.—Henry P. Watts, Lynchburg, Va.—This invention has for its object to furnish an improved machine for removing corn from the cob both when dry and when green, which machine shall be simple in construction, easily and conveniently operated, and effective in operation.

BEDSTEAD.—D. M. Estey, Brattleborough, Vt.—This invention has for its object to improve the construction of bedsteads that the slats may be secured in place without the use of ledges or strips attached to the inner sides of the rails, and which shall, at the same time, allow the said slats to be conveniently taken out and put in when required.

COMBINED DOUBLE SHOVEL AND TWO-HORSE CULTIVATOR.—S. G. Rayl, Agency City, Iowa.—This invention has for its object to furnish a simple, convenient, and effective two-horse cultivator for cultivating plants planted in rows, and which shall be so constructed and arranged that the double shovel plows may be easily and quickly detached from the carriage and adjusted for use as single-horse cultivators.

BEAMS AND GIRDERS.—Richard J. Gutling, Indianapolis, Ind.—This invention has for its object to furnish improved girders and beams for fire-proof buildings and other uses, which shall be so constructed that the flooring and laths can be nailed directly to said beams and girders, and which may at the same time be constructed with less powerful machinery and at less expense than when made in the ordinary manner.

FORMING BITS AND AUGERS.—James Swan, Seymour, Conn.—This invention has for its object to furnish an improved method of upsetting and turning the lips and forming the screw points of double, curved-tipped bits and augers from the pressed and crimped blanks by means of a pair of duplicate dies.

MACHINE FOR MAKING HORSE SHOES.—Frederick D. Althaus, Morrisania, N. Y., and John F. Allen, Tremont, N. Y.—This invention has for its object to furnish an improved machine for forming horseshoes which shall be so constructed and arranged that the hot bars may be fed in at one end of the machine and come out at the other end in the form of perfect shoes.

CIRCLE OR FIFTH WHEEL FOR VEHICLES.—C. St. James, Pittsfield, Mass.—This invention has for its object to furnish an improvement in the construction of the circle, or fifth wheel of vehicles, so as to avoid the use of a king-bolt, and which, at the same time, shall be so constructed as to allow the wear to be conveniently taken up to keep the parts always close and firm.

CAN OPENER.—H. C. Alexander, New York City.—This invention has for its object to furnish a simple and convenient instrument for opening cans, sardine boxes, etc.

LETTER CARRIERS' ALARM.—Edward H. Ripley, Boston Highlands, Mass.—This invention has for its object to furnish an improved attachment for the doors of houses, offices, etc., which are kept constantly or occasionally locked or bolted, which shall be so constructed and arranged as to enable the letter carrier to pass letters and other small packages through said door, and at the same time will notify the inmates of their delivery.

WASHING MACHINE.—Isaac Erb, Bowmanville, P. O., Lancaster, N. Y.—This invention has for its object to furnish an improved washing machine, which shall be so constructed and arranged that while washing the clothes quickly, thoroughly, and without injury to the fabrics, it will enable the cover and presser to be turned back out of the tub and out of the way while putting in and taking out the clothes, and which will, at the same time allow a steam-tight cover to be applied to the tub.

CORN CULTIVATORS.—A. J. Grush, Springfield, Ill.—The object of this invention is to provide a cultivator capable, by a slight adjustment, of adaptation for use and for guidance, either for the operator to ride upon it or walk behind it. It is also designed to provide certain adjusting devices for the plow beams for governing the depth of plowing and their distance apart; also an adjustable arrangement for the plow handles, and an arrangement of means for suspending the plows above the ground.

DRESS PROTECTOR.—Mrs. A. H. Graton, Lawrence, Kansas.—This invention consists of a short annular sack, preferably of water-proof substance, shaped and adapted for receiving the lower parts of the skirts, and to hold them up out of the water and mud, by being suspended at the outside by straps from a belt around the waist, and at the part inside the skirts, by straps hooking upon the hoop skirt or other under skirt.

FARM GATE.—George F. Bissell, Oneonta, N. Y.—The object in this invention is to improve and perfect the farm gate, various styles of which are in use, and the invention consists in the method of supporting and operating it.

APPARATUS FOR MEASURING WATER AND OTHER LIQUIDS.—John Winsborough, Livermere Road, Dalston, England.—The object of this invention is to obtain uniformity in the pressure upon the several parts of a meter, and, consequently, greater accuracy, with a minimum of wear and tear in working, together with correct measurement of the liquid passed through.

FOLDING CHAIR.—Nicholas Collignon and Claudius O. Collignon, Closter, N. J.—This invention relates to chairs which fold up into a small space, whereby they are rendered much more convenient for transportation and storage than chairs of ordinary construction.

STUD AND BUTTON FASTENING.—C. L. Horack, Willimantic, Conn.—This invention relates to a new and useful improvement in a device for fastening studs and buttons to shirt bosoms and wristbands and for all similar uses.

CONVERTIBLE WRITING DESK.—Frederick Robbin, Hudson City, N. J.—This invention consists in so constructing and arranging the top and the case containing the drawers and pigeon holes, that a writing desk or a table may be formed at will.

FIELD PRESS.—E. J. Marsters, Shaw's Flat, Cal.—This invention relates to a new hay or cotton press, which is arranged so that it can be readily transported from one place to another, to press the material directly on the field or wherever it may be desired. The invention consists in the general construction of the apparatus, which is mounted upon a wagon, and which is so got up by the application of toggle levers and other devices, that a powerful press is obtained.

EARTH CLOSETS AND URINALS.—Augustus Fraser Baird, Pimlico, London, England.—This invention consists in constructing an earth closet which is provided with a receptacle beneath the seat for receiving the deposits with which the earth is to be mixed, and with a shoot or passage opening into the said receptacle for conveying the earth into the same, and at the other end to that opening above mentioned, another opening by which the earth is supplied from a hopper to the said shoot.

FOUNDRY MOLDING.—Thomas G. Lucas, Middletown, Conn.—This invention relates to a new and useful improvement in the manner of molding patterns for making castings of iron or other metal, and consists in the use of draft plates (one or more) in combination with the pattern.

COMPOSITION FOR DESTROYING INSECTS ON FRUIT TREES.—John Ahearn, Baltimore, Md.—This invention consists of a composition of six simple and

inexpensive ingredients for application to the roots, trunks, and limbs of trees, to destroying grubs and worms, and to prevent the ravages of insects. It is also said to be an excellent fertilizer.

Official List of Patents.

Issued by the United States Patent Office.

FOR THE WEEK ENDING NOV. 16, 1869.

Reported Officially for the Scientific American.

SCHEDULE OF PATENT OFFICE FEES: On each caveat... \$10 On filing each application for a Patent (seventeen years)... \$15 On issuing each original Patent... \$20 On appeal to Commissioner of Patents... \$20 On application for Reissue... \$30 On application for Extension of Patent... \$50 On granting the Extension... \$50 On filing a Disclaimer... \$10 On an application for Design (three and a half years)... \$10 On an application for Design (seven years)... \$15 On an application for Design (fourteen years)... \$30 In addition to which there are some small revenue-stamp taxes. Residents of Canada and Nova Scotia pay \$500 on application.

For copy of Claim of any Patent issued within 30 years... \$1 A sketch from the model or drawing, relating to such portion of a machine as the Claim covers, from upward, but usually at the price above named... \$1 The full Specification of any patent issued since Nov. 20, 1866, at which time the Patent Office commenced printing them... \$1.25 Official Copies of Drawings of any patent issued since 1836, we can supply at a reasonable cost, the price depending upon the amount of labor involved and the number of views. For information, as to price of drawings, in each case, may be had by addressing MUNN & CO., Patent Solicitors, No. 37 Park Row, New York.

- 96,761.—CAN OPENER.—H. C. Alexander, New York City.
96,762.—HORSESHOE MACHINE.—Frederick D. Althaus, Morrisania, and John F. Allen, Tremont, N. Y.
96,763.—REVERSIBLE DIE-BOX FOR NUT MACHINES.—Wesley Anderson, Pittsburgh, Pa.
96,764.—MACHINE FOR MAKING MATCH BLOCKS.—Emery Andrews, Portland, Me., and Wm. Tucker, Philadelphia, Pa.
96,765.—FILTER RACK.—E. C. Andrews, Seneca Falls, N. Y.
96,766.—TUBING CLUTCH.—Joel N. Angier, Titusville, Pa.
96,767.—EARTH CLOSET.—Augustus Fraser Baird, Pimlico, England.
96,768.—Antonio Barli.—Suspended.
96,769.—RAILWAY-RAIL SPLICE.—Jason T. Bartlett (assignor to himself and Edward E. Batman), Boston, Mass.
96,770.—POTATO DIGGER.—Joseph Belknap, Adrain, Mich.
96,771.—FARM GATE.—Geo. F. Bissell, Oneonta, N. Y.
96,772.—LANTERN.—Wm. H. Bonnell, Buffalo, N. Y.
96,773.—STOVE-PIPE SHELF AND CLOTHES DRYER.—W. C. Burnham, Blooming Grove, N. Y.
96,774.—COMBINED SEED PLANTER AND CULTIVATOR.—Geo. W. Carpenter, Butler, Ind.
96,775.—WATER WHEEL.—Denison Chase, Orange, Mass.
96,776.—COMBINED SCREW AND PIPE WRENCH.—J. W. Close, Buffalo, N. Y.
96,777.—UMBRELLA.—Maggie Clyde, Brady Post Office, Pa.
96,778.—FOLDING CHAIR.—Nicholas Collignon and Claudius O. Collignon, Closter, N. J.
96,779.—APPARATUS FOR TYING FLEECES.—Solon Cooley (assignor to himself and Ceylon M. Kelly), Caro, Mich.
96,780.—WASHING MACHINE.—Herrmann Cramer, Sonora, Cal.
96,781.—APPARATUS FOR UNLOADING CARS.—John Dable, Chicago, Ill. Antedated November 5, 1869.
96,782.—MACHINE FOR ROLLING CAR COUPLING PINS.—Frederick W. Davison, Cleveland, Ohio.
96,783.—GATE.—John R. Davis, Covington, Ga.
96,784.—TRACK-CLEARING CAR.—Augustus Day, Detroit, Mich.
96,785.—WATER ELEVATOR.—G. W. Dickerson, Prairietown, Ind.
96,786.—WASHING MACHINE.—Isaac Erb, Lancaster, N. Y.
96,787.—BEDSTEAD.—D. M. Estey, Brattleborough, Vt.
96,788.—CABINET FOR LADIES.—Alexander J. Forbes, San Francisco, Cal.
96,789.—RIGGING SHIPS.—Robert B. Forbes, Boston, Mass.
96,790.—PROCESS FOR REDUCING REBELLIOUS ORES OF THE PRECIOUS METALS.—Alfred I. Frick and Jean Baptiste Le Clerc, San Francisco, Cal.
96,791.—MACHINE FOR CUTTING PASTEBOARD.—H. A. Gage, Manchester, N. H.
96,792.—CALENDAR CLOCK.—Daniel J. Gale, Sheboygan Falls, Wis.
96,793.—BEAM.—Richard J. Gutling, Indianapolis, Ind.
96,794.—GAVEL FORK.—Thos. R. George, West Dryden, N. Y.
96,795.—SEWING MACHINE FAN.—D. W. Glassie, Nashville, Tenn.
96,796.—WIND WHEEL.—Luman M. Godfrey, Colon, Mich., assignor to himself and George S. Sheffield.
96,797.—DRESS AND SKIRT PROTECTOR.—A. H. Graton, Lawrence, Kansas.
96,798.—GRATE BAR.—C. A. Greenleaf, Indianapolis, Ind.
96,799.—COOKING STOVE.—James Grimes, Portsmouth, Ohio.
96,800.—MACHINE FOR TENONING SPOKES.—Millburn Gunn, Jeffersontown, Ky.
96,801.—CORN CULTIVATOR.—A. J. Grush, Springfield, Ill.
96,802.—DOOR LOCK.—Charles Godfrey Gumpel, Leicester Square, England.
96,803.—MACHINE FOR BENDING THILLS.—James S. Hamlet, Portsmouth, Ohio.
96,804.—BREAD MACHINE.—John E. Hawkins, Lansingburg, N. Y.
96,805.—PORTABLE FENCE.—Lewis Hazlett and Samuel D. Hazlett, Winfield township, Pa.
96,806.—HEATING STOVE.—Chas Hempel and Joseph Schaum, Detroit, Mich.
96,807.—CARPET SWEEPER.—R. C. Higgins and Abraham Fuller, Boston, Mass.
96,808.—BUTTON.—C. L. Horack, Willimantic, Conn.
96,809.—HEMMER FOR SEWING MACHINES.—E. Howell, Ash-tabula, Ohio.
96,810.—HORSE HAY FORK.—Amos B. Hunt, Matteson, Mich.
96,811.—LATH MILL.—John S. Hyde, Pentwater, Mich.
96,812.—APPARATUS FOR PREVENTING HORSES FROM KICKING IN THE STABLE.—Werner Itchner, Philadelphia, Pa.
96,813.—RAILWAY CAR COUPLING.—John D. Kerrison, New York City.
96,814.—FENCE.—Andrew Kull, Jr., Bloomfield, Wis.
96,815.—MANUFACTURE OF PLASTIC VENEER.—Chas. Kuttler, West Hoboken, N. J.
96,816.—RAILWAY CAR COUPLING.—Leo Laley, Goshen, Ind.
96,817.—HEEL-CUTTING MACHINE.—Richard C. Lambert, Raynham, assignor to David Whittemore, North Bridgewater, Mass.
96,818.—MACHINE FOR CUTTING FELLIES.—Wm. A. Lewis, and Geo. W. Butler, Joliet, Ill.
96,819.—FLASK FOR MOLDING.—Thos. G. Lucas, Middletown, Conn.
96,820.—FLUTING MACHINE.—Hannah Luchs, Washington, D. C.
96,821.—ANIMAL TRAP.—Wm. Luker, Kalamazoo, Mich.
96,822.—FIELD PRESS.—E. J. Marsters, Shaw's Flat, Cal.
96,823.—SODA WATER DRAFT APPARATUS.—John Matthews, Jr., New York City.
96,824.—DITCHING MACHINE.—James W. McGehee, Fayetteville, Texas.
96,825.—GRAIN DRILL.—Wm. H. Moore, Jr., Blooming Grove, Ind.
96,826.—COOKING STOVE.—W. N. Moore, Neenah, Wis.
96,827.—MANUFACTURE OF PIG IRON.—Charles Motier Nes York, Pa.
96,828.—BEVERAGE.—Constantine Nessi, San Francisco, Cal.
96,829.—DRAG.—John W. Newton, Geneva, Wis. Antedated November 1, 1869.
96,830.—SAMPLE CARD FOR LIQUIDS.—Henry Nustedt, New York City.

96,831.—PROPELLING APPARATUS FOR VESSELS.—Amos D. Owen, Thornstown, Ind., and John D. Sherman, Paw Paw, Mich.
96,832.—RUBBER HOSE.—Edward Livingston Perry (assignor to Combination Rubber Company), New York city.
96,833.—BARREL-FILLING APPARATUS WITH WHISTLING INDICATOR.—Hiram S. Phillips, Sewickley, Pa.
96,834.—Edgar M. Potter.—Suspended.
96,835.—MECHANISM FOR RAISING TOP ROLLER WEIGHTS IN SPINNING MACHINES.—Geo. W. Prentice, Whitinsville, Mass.
96,836.—HARROW.—Elijah J. Preston, Eureka, Mo.
96,837.—AX.—Ernest Quast, Freedom, Mo.
96,838.—COMBINED DOUBLE SHOVEL AND TWO-HORSE CULTIVATOR.—S. G. Ray, Agency City, Iowa.
96,839.—COCKING RANGE.—Philip Rollhaus, Port Chester, N. Y.
96,840.—STABLE HOOK.—Geo. W. Sanderson, Shirley, Mass.
96,841.—DETACHABLE BUOYANT SHIP'S DECK.—Jos. Sawyer, Sebewaing, Mich.
96,842.—APPARATUS FOR CARBURETING AIR.—Ira W. Shaler, Brooklyn, N. Y.
96,843.—TRUNK TIE AND CLASP.—A. D. Smith, Grafton, assignor to David Rose, Rawsonville, Ohio.
96,844.—WATCH-WINDING AND SETTING ATTACHMENT.—Charles Spiro, New York city.
96,845.—ENVELOPE OPENER.—Charles B. Stephens, Riverton, Conn.
96,846.—FIFTH-WHEEL FOR CARRIAGES.—Clement St. James, Pittsfield, Mass.
96,847.—DIE FOR FORMING BITS AND AUGERS.—James Swan, Seymour, Conn.
96,848.—COMBINED UMBRELLA, CANE, AND SEAT.—Gillespie Sweeney, New York city.
96,849.—WOOD PAVEMENT.—A. Van Camp, Washington, D. C., and M. M. Hoagman, St. Louis, Mo.
96,850.—CONCRETE FOR PAVEMENT AND FOR OTHER PURPOSES.—A. Van Camp, Washington, D. C., and M. M. Hoagman, St. Louis, Mo.
96,851.—HOLDBACK FOR CARRIAGE THILLS.—Peter Spohn Van Wagner, Saltfleet township, Canada.
96,852.—ADJUSTABLE TRACE FASTENING.—Peter Spohn Van Wagner (assignor to himself and Alfred E. Carpenter), Stony Creek, Saltfleet township, Canada.
96,853.—WATER WHEEL.—Alonzo Warren, Boston, Mass.
96,854.—TUBE WELL.—Asa Waters, Mobile, Ala.
96,855.—COOKING STOVE.—George Wellhouse, Akron, Ohio.
96,856.—FRUIT BOX CRATE.—James White, Cleveland, Ohio.
96,857.—WASH BOILER.—George W. Wilson, Freeport, Ill.
96,858.—LIQUID METER.—John Winsborrow, Livermere Road, Dalston, England.
96,859.—FENCE.—Stephen A. Wood, Cardington, Ohio.
96,860.—HARNES PAD BLOCK.—J. Zimmer, Jr., Haliday, Ill.
96,861.—COMPOSITION FOR DESTROYING INSECTS ON FLOWERS, PLANTS, AND BUSHES.—John Ahera, Baltimore, Md.
96,862.—HOSE PIPE NOZZLE.—Albert F. Allen, Providence, R. I.
96,863.—HOSE LADDER STRAP.—Albert F. Allen, Providence, R. I.
96,864.—WASHING MACHINE.—William Arnold, Pawtucket, R. I.
96,865.—REVERSIBLE SAFETY PINION FOR WATCHES.—Benjamin Bacon, Morrison, Ill., assignor, by mesne assignments, to National Watch Company.
96,866.—CHAIN ELEVATOR AND BUCKET.—John Augustus Ball, Grass Valley, Cal.
96,867.—SEAMING MACHINE.—Charles E. Bancroft, Montpelier, Vt.
96,868.—SAW MILL.—Simon Barnhart, Chillicothe, Ohio.
96,869.—FRUIT JAR.—Edwin Bennett, Baltimore, Md.
96,870.—WOOD PAVEMENT.—Albert Betteley, Boston, Mass.
96,871.—PRESERVING FRUITS, MEATS, AND OTHER SUBSTANCES.—V. W. Blanchard, Bridport, Vt.
96,872.—FURNACE AND PROCESS FOR TREATING AND REDUCING ORES, ETC.—V. W. Blanchard, Bridport, Vt. Antedated November 6, 1869.
96,873.—FASTENING FOR FRUIT JARS.—Eliam Boorse, Philadelphia, Pa.
96,874.—PROCESS AND APPARATUS FOR ANNEALING METALS.—J. M. Bottum, New York city.
96,875.—GANG PLOW.—W. J. Boyce and G. W. Haines, Maine Prairie, Cal.
96,876.—FIRE EXTINGUISHER.—John F. Boynton, Syracuse, N. Y.
96,877.—WASHING MACHINE.—Charles B. Bristol, New Haven, Conn.
96,878.—GRAIN METER.—Thomas Brocket and J. J. Brown, Davenport, Iowa.
96,879.—SNOW SHOVEL.—G. W. Brown, Providence, R. I. Antedated Nov. 10, 1869.
96,880.—CARRIAGE JACK.—Daniel Bull, Amboy, Ill.
96,881.—BIT BRACE.—C. L. Butler, Greenfield, Mass.
96,882.—DRIVING CAR.—J. K. Caldwell, Allegheny City, Pa.
96,883.—CORN PLANTER.—Joseph Patten Campbell, Danville, Pa.
96,884.—STRIPPER FOR CARDING MACHINES.—L. M. Capron, (assignor to Alexander Bigelow and George Barber), Worcester, Mass.
96,885.—STEAM BOILER.—Geo. Clark, Buffalo, N. Y.
96,886.—SEWING MACHINE.—P. J. Clever, Goliad, Texas.
96,887.—CARRIAGE.—I. A. Clippinger, Newton, Iowa. Antedated Nov. 8, 1869.
96,888.—WASHING MACHINE.—Geo. Combs, Utica, N. Y.
96,889.—BAIL OR HANDLE FOR PAIRS, ETC.—E. T. Covell, Brooklyn, N. Y. Antedated Nov. 10, 1869.
96,890.—MANUFACTURE OF NOZZLE AND SCREW CAPS FOR OIL CANS, ETC.—E. T. Covell, Brooklyn, N. Y.
96,891.—THILL COUPLING.—W. H. Cox and Theophilus Larouche, Williamstown, N. Y.
96,892.—HAY TEDDER.—T. C. Craven, Albany, N. Y., assignor to W. L. and H. K. Boyer.
96,893.—STEAM CLOTH PRESS.—John J. Crawford, Glasgow, Scotland.
96,894.—HORSE HAY FORK.—Jephtha Cummins and C. E. Cummins, Perry, Mich.
96,895.—WATER GOVERNOR.—Henry Curtner (assignor to himself and Eli Ragon), Anna, Ohio.
96,896.—COMBINED HARVESTER AND THRASHER.—W. G. Davis and L. T. Davis, McMinnville, Oregon, assignors to Daniel McCreary, J. B. Davis, and L. T. Davis.
96,897.—LANTERN.—Cyrus Dean, Buffalo, N. Y., assignor to J. A. Blake, Port Robinson, Canada.
96,898.—CARRIAGE FIFTH WHEEL.—D. D. Decker, Saugerettes, N. Y., assignor to himself and W. B. Dubois.
96,899.—KILN FOR REVIVIFYING BONE BLACK.—J. O. Donner, Jersey City, N. J.
96,900.—VACUUM PAN AND SIMILAR APPARATUS.—J. O. Donner, Jersey City, N. J.
96,901.—HEMMER FOR SEWING MACHINE.—T. H. Eulass, Mason City, Ill.
96,902.—BASE-BURNING STOVE.—M. G. Fagan (assignor to himself and J. B. Wilkinson), Troy, N. Y.
96,903.—LINK-MOTION DEVICE FOR STEAM ENGINES.—E. Faron (assignor to Reaney, Son & Co.), Chester, Pa.
96,904.—CARRIAGE THILL COUPLING.—Cyrus Fisher, Canton, Mass., assignor to himself and A. G. Fisher, New York city.
96,905.—MANUFACTURE OF IRON AND STEEL.—F. P. Fletcher and V. W. Blanchard, Bridport, Vt.
96,906.—CHURN DASHER.—J. M. Fletcher, Sidney, Ohio.
96,907.—PLOW.—Asahel Franklin, Springfield, Ohio.
96,908.—SASH HOLDER.—J. G. Garretson and O. S. Garretson, Buffalo, N. Y.
96,909.—LAMP-SHADE HOLDER.—E. P. Gleason, New York city.
96,910.—MACHINE FOR CUTTING THREADS ON BOLTS.—J. J. Grant (assignor to Charles H. Stockbridge), Northampton, Mass. Antedated Nov. 6, 1869.
96,911.—CASTING COPPER TUBES.—James F. Guthrie, Somerville, Mass.
96,912.—TUBE-CUTTING MACHINE.—Samuel Halliwell, New Haven, Conn.
96,913.—FRICTION CLUTCH.—Moses Hawkins (assignor to himself, R. M. Bassett, and T. S. Bassett), Birmingham, Conn.
96,914.—PIPE COUPLING.—Rowland Hill, East Boston, Mass.

96,915.—CARPET.—David Hirschberg, Baltimore, Md.
96,916.—METHOD OF LINING RINGS, BUCKLES, ETC.—John P. Hiseley (assignor to himself and Henry L. Duquai), Syracuse, N. Y.
96,917.—HORSE RAKE.—H. W. Holcomb (assignor to himself and W. F. Hughes), Northville, Mich.
96,918.—WOODEN PAVEMENT.—Phineas Howard (assignor to J. S. Josselyn, W. B. Lake, and R. F. Josselyn), San Francisco, Cal. Antedated Nov. 3, 1865.
96,919.—COTTON SEED PLANTER.—O. P. Humber, Greenville, N. C.
96,920.—BRICK MACHINE.—D. J. Hunter, Exeter, N. H.
96,921.—FACING FOR BUILDINGS.—Thomas A. Hunter and John Blewitt, New York city.
96,922.—IRON FRONT FOR BUILDINGS.—P. H. Jackson, New York city.
96,923.—WATER FILTER.—J. C. Jewett, Buffalo, N. Y.
96,924.—DOOR CHECK.—W. H. Johnson, Sr., Clayton, Ind.
96,925.—MECHANISM FOR OPERATING THE JACKS IN LOOMS.—C. H. Knowlton, Camden, N. J.
96,926.—GRAIN DRILL.—Benj. Kuhns, Dayton, Ohio.
96,927.—RAISING AND MOVING COAL, ETC.—Alfred Lawton, Philadelphia, Pa.
96,928.—HORSE SHOERS' HOOF PARER.—Franz Lehmann, Riverside, Ill.
96,929.—GALLEY REST.—M. T. Lincoln (assignor to himself and Wm. Robinson), Washington, D. C.
96,930.—BROILER.—G. H. Link and C. D. Curtis, Syracuse, N. Y.
96,931.—NEEDLE POLISHER, SHARPENER, AND LUBRICATOR.—H. W. Little, Muncie, Ind.
96,932.—RAILWAY-CAR COUPLING.—Frank B. Lord, Cincinnati, Ohio.
96,933.—GRAIN BINDER.—J. W. Loveless and C. H. Shaffer, Clark's Hill, Ind. Antedated Nov. 3, 1869.
96,934.—FENCE.—Cloviss Lowe, Randolph, N. H.
96,935.—THILL SHACKLE.—John Madden and Upson Bushnell, Cleveland, Ohio.
96,936.—COMPOSITION FOR PREVENTING OXIDATION OF METALLIC WATER OR GAS PIPES.—George Albert Mariner and Folsom Dorsett, Chicago, Ill.
96,937.—HAND SPINNING MACHINE.—Chelton, Matheny, Greensburg, Ind.
96,938.—CORN SHELLER.—W. M. Mayall, Gray, Me., assignor to himself and J. C. Mayall, Boston, Mass.
96,939.—BREWING ALE, BEER, ETC.—Jas. McCormick, Boston, Mass.
96,940.—VAPOR BATH APPARATUS.—John McNeven, New York city.
96,941.—BAG HOLDER.—Jas. McPhail, Charles City, Iowa.
96,942.—CHEESE HOOP.—H. W. Millar, Utica, N. Y.
96,943.—MEDICAL COMPOUND FROM OAK BARK.—S. J. Miller, Economy, Ind.
96,944.—SEWING MACHINE FOR BOOTS AND SHOES.—Daniel Hills, New York city, assignor to Charles Goodyear, Jr., New Rochelle, N. Y.
96,945.—METHOD OF WARMING RAILROAD CARS.—Thos. N. Morse, Fairhaven, Mass.
96,946.—ANIMAL TRAP.—Joseph Nampel, Freeport, Ill.
96,947.—PUMP.—S. B. B. Nowlan (assignor to Jas. Coleman and Wm. Baxter), New York city.
96,948.—SAWING MACHINE.—Wm. Oller (assignor to himself and J. D. Ulery), Scenery Hill, Pa.
96,949.—SEAM FOR TIN CANS.—C. R. Otis, Chicago, Ill.
96,950.—BLIND SLAT OPERATOR.—Oscar Paddock, Water-town, N. Y.
96,951.—CORSET.—L. A. Palmer (assignor to himself and F. E. Hibbard), Boston, Mass.
96,952.—WATER WHEEL.—Philip O. Palmer, Swoope's Depot, Va.
96,953.—LIP SHIELD.—E. C. Philbrick, Bath, Me.
96,954.—FABRIC FOR SHIRT COLLARS.—C. F. Pidgin, Boston, Mass. Antedated Nov. 3, 1869.
96,955.—WEIGHING SCALE.—William P. Pierce, New York city.
96,956.—HANGING LOWER TOPSAIL YARDS.—E. J. Pinkham, Portland, Me.
96,957.—PIPE WRENCH.—Charles Pomeroy, Mattoon, Ill.
96,958.—OIL CAN.—Charles Pratt, New York city.
96,959.—HYDRANT.—Washburn Race and S. R. C. Mathews Lockport, N. Y., assignors to S. R. C. Mathews.
96,960.—MACHINE FOR SHEARING ANGLE IRON.—Thomas Reaney, Chester, Pa.
96,961.—STAND FOR EXHIBITING PHOTOGRAPHS, ETC.—J. S. Reid, Orange, Ind.
96,962.—COUPLING FOR HOLLOW SHAFTS.—P. W. Reinshagen (assignor to himself and J. H. Buckman), Cincinnati, Ohio.
96,963.—VELOCIPÈDE.—Joseph Repetti, Philadelphia, Pa.
96,964.—STEERING APPARATUS.—F. M. Richardson, Stockton, Me.
96,965.—ALARM FOR LETTER BOXES.—E. H. Ripley (assignor to himself and J. A. Kohl), Boston Highlands, Mass.
96,966.—WRITING DESK.—F. Robbin, Hudson City, N. J., assignor to himself and Philip Lahr, New York city.
96,967.—CHURN.—F. L. Roberts, Jacksonville, assignor to J. M. McPherson, Ripley, Ill.
96,968.—HASP LOCK.—C. W. A. Romer, Newark, N. J.
96,969.—SASH PULLEY.—Benoit Roux (assignor to himself and George Haupt), Cincinnati, Ohio.
96,970.—STRAW CUTTER.—J. V. Rowlett, Richmond, Ind.
96,971.—CLAMP.—Wm. Sailer, Philadelphia, Pa.
96,972.—TOY.—Ernest Santin, New York city.
96,973.—BROILER.—G. S. Saxton (assignor to himself and J. M. Saxton), St. Louis, Mo.
96,974.—PLATFORM LADDER.—Jacob Sheetz, Sunbury, Pa.
96,975.—MACHINE FOR ROLLING TUBES.—G. H. Sellers, Wilmington, Del.
96,976.—RAILWAY CAR COUPLING.—G. Shatswell, Waukegan, Ill.
96,977.—HANGING BASKET.—Daniel Sherwood (assignor to Woods, Sherwood & Co.), Lowell, Mass.
96,978.—APPARATUS FOR CURING MEAT.—M. B. Sherwood, Jr., Buffalo, N. Y.
96,979.—CULTIVATOR.—James Simpson, Cordova, Ill.
96,980.—BLIND RACK.—C. E. Smith, Goffstown, N. H.
96,981.—BUCKLE FOR CLOTHING.—E. A. Smith, Waterbury, Conn.
96,982.—JOINTED PIPE CONNECTION.—Hiram Smith, Norwalk, Ohio.
96,983.—SPRING.—J. M. Schmidt, New Albany, Ind.
96,984.—CONCRETE COMPOUND FOR PAVEMENTS, ETC.—J. W. Smith, Washington, D. C., assignor to J. C. Peck and Benj. Fenner, for five eighths interest.
96,985.—BRICK MACHINE.—P. J. Smith (assignor to himself, C. B. Andress, B. F. Pine, H. G. Sickle, Thomas Woods, and J. Q. Ginnocci), Philadelphia, Pa.
96,986.—LAMP.—R. H. Smith (assignor to J. S. and T. B. Atterbury), Pittsburgh, Pa.
96,987.—TOP FOR SIRUP PITCHERS.—Thomas Smith, Jr., Boston, Mass.
96,988.—COMPOSITION FOR PAVEMENTS.—H. F. Snow and J. H. Davis, Dover, N. H.
96,989.—MEANS FOR VENTILATING, COOLING, AND WARMING BEPS.—D. E. Somes, Washington, D. C.
96,990.—PAGING MACHINE.—Samuel W. Soule, Milwaukee, Wis.
96,991.—COAL SCREEN.—William Sparks, New York city. Antedated Nov. 5, 1869.
96,992.—TELEGRAPH SOUNDER.—Henry Splitdorf, New York city.
96,993.—PACKING FOR PISTONS AND VALVES.—W. M. Stevenson and Austin Pearce, Harmony, Pa., assignors to themselves and G. E. Haney, Boston, Mass.
96,994.—BAKING POWDER.—John Stowell, Charlestown, Mass.
96,995.—BRICK MACHINE.—R. Stuckwisch, Terre Haute, Ind.
96,996.—HAY ELEVATOR.—Hiram C. Stouffer, East Lewis-ton, assignor to George Smith, Lowellville, Ohio. Antedated May 17, 1869.
96,997.—STILL FOR DISTILLING NAPHTHA AND PETROLEUM.—A. H. Tait, Jersey City, N. J.
96,998.—PROCESS OF PREPARING GRAIN FOR DISTILLATION.—Henry Tauszky, New York city, assignor to Eli D. Bannister and Rudolph Tauszky.

96,999.—SAFETY VALVE.—Henry Taylor and J. M. Coale, Baltimore, Md.
97,000.—MACHINE FOR GRINDING THE CUTTERS OF MOWING MACHINES.—A. P. Thayer, Syracuse, N. Y.
97,001.—MODE OF COLLECTING AND STORING CARBONIC ACID FOR EXTINGUISHING FIRES.—Eli Thayer, Worcester, Mass., assignor to himself and M. Cowing, New York city.
97,002.—FILE.—Albert Thompson, Norway, Me., assignor to himself and G. T. Wheeler, Ridgway, Pa.
97,003.—BOOK RACK.—J. P. Tibbitts, New York city.
97,004.—ARTIFICIAL MARBLE.—Christian Volckmann (assignor to Otto Dresel, John Seltzer, and P. A. Schlapp), Columbus, Ohio.
97,005.—SCHOOL DESK.—A. S. Vorse, Des Moines, Iowa.
97,006.—DRYER.—J. M. Ward (assignor to himself and T. B. White), Oxford, Ohio.
97,007.—COMPOUND SOAP.—Alexander Warfield, Alexandria, Va.
97,008.—CORN SHELLER.—H. P. Watts, Lynchburg, Va., assignor to himself and J. A. Cooley.
97,009.—VEHICLE FOR TRANSPORTING MACHINES.—Geo. W. Wheeler, 2d, New Ipswich, N. H.
97,010.—BIT-STOCK FASTENING.—C. P. Whitman, Charle-mont, Mass., assignor to himself and W. C. Dodge, Washington, D. C.
97,011.—WATER ELEVATOR.—T. P. Wilcox, Hebron, Ind.
97,012.—HANDLE FOR BRUSHES, CARDS, ETC.—Daniel Witt and Aaron Wait, Hubbardston, Mass.
97,013.—MODE OF ATTACHING SEATS TO WAGONS.—D. J. Wilcoxson (assignor to himself and A. J. Mowry), Milan, Ohio.
97,014.—SEWING MACHINE FOR BUTTON HOLES.—George B. Woodruff and George Browning, London, England, assignors to "The Singer Manufacturing Co.," New York city.
97,015.—DIE FOR MAKING SHEARS.—S. H. Woods, Berlin, assignor for one half to R. S. Gladwin, West Meriden, Conn.
97,016.—SIGNAL LIGHT FOR RAILROAD CARS.—H. A. Wright Logansport, Ind.
97,017.—PROCESS OF MANUFACTURING STEEL.—James Johnston (assignor to himself, Alexander Postley, S. H. Nesbit, J. C. Percibing, Lewis Peterson, and Thomas Fawcett), Allegheny, Pa., and John Hunter, Alliance, Ohio.
97,018.—WASHING MACHINE.—G. L. Witsil, Philadelphia, Pa., assignor to himself and Charles Merrill, Detroit, Mich.
97,019.—DEVICE FOR GRATING GREEN CORN FROM THE COB, ETC.—G. L. Witsil (assignor to himself and R. D. L. S. Gutzesell), Philadelphia, Pa.
97,020.—STREET RAILWAY.—A. Van Camp, Washington, D. C., and M. M. Hoagman, St. Louis, Mo.

REISSUES.

78,569.—COMPOSITION FOR DESTROYING INSECTS ON FRUIT TREES.—Dated June 2, 1868; reissue 3,728.—John Ahearn, Baltimore, Md., assignee of B. Best.
71,706.—SAFETY POCKET.—Dated Dec. 3, 1867; reissue 3,729.—Joseph Colton, New York city.
34,182.—SKELETON SKIRT.—Dated January 14, 1862; reissue 3,730.—Division A.—Marks Fishel, Adolph Opper, and Leo Popper, New York city, assignees of Marks Fishel.
34,182.—SKELETON SKIRT.—Dated Jan. 14, 1862; reissue 3,731.—Division B.—M. Fishel, Adolph Opper, and Leo Popper, New York city, assignees of Marks Fishel.
12,780.—SHUTTLE FOR LOOMS.—Dated May 1, 1855; reissue 3,732.—Dated March 30, 1869; extended seven years; reissue 3,732.—Liberty Ditchfield, P. C. Litchfield, and L. M. Litchfield, Southbridge, Mass., assignees of Lydia W. Litchfield, administratrix of the estate of Lary Litchfield, deceased.
20,192.—EXPANSIVE BIT.—Dated May 11, 1858; reissue 3,733.—Dated June 22, 1869; reissue 3,733.—William A. Clark, Woodbridge Conn.
29,690.—MACHINE FOR DRESSING AND FINISHING THREAD.—Dated Aug. 21, 1860; reissue 3,734.—Origin Hall, Willimantic, Conn., and T. Merrick, Holyoke, Mass.
92,050.—PRINTING PRESS.—Dated June 29, 1869; reissue 3,735.—R. M. Hoe and S. D. Tucker, New York city.
94,005.—WASHING MACHINE.—Dated Aug. 24, 1869; reissue 3,736.—Alex. King and G. H. King, Painesville, Ohio.
94,428.—COMPOUND FOR CURING CHOLERA IN HOGS AND CHICKENS.—Dated Aug. 31, 1869; reissue 3,737.—A. C. McMahon, Lincoln, Ill.
72,561.—MACHINE FOR FOLDING TINNED PLATES.—Dated Dec. 24, 1867; reissue 3,738.—O. W. Stow, Plantsville, Conn.

DESIGNS.

3,750.—SIGN.—Emil Ney, New York city.
3,751.—TRADE MARK.—W. F. Sayles and F. C. Sayles, North Providence, R. I.
3,752.—COTTON KNIFE.—G. A. Seaver, New York city.
3,753.—FLOOR OIL CLOTH.—C. W. Strout, Hallowell, Me.
3,754.—TEA SERVICE.—H. Vasseur (assignor to Simpson, Hall, Miller & Co.), Wallingford, Conn.
3,755.—PERFORATED BANNER.—Wm. S. Worthington, New-town, N. Y.

EXTENSIONS.

MACHINE FOR MANUFACTURING CORKS.—Mary F. Crocker, of West Winsted, Conn., administratrix of the bonis non of W. R. Crocker, deceased.—Letters Patent No. 13,714, dated Oct. 30, 1855.
PROCESS FOR MAKING ZINC WHITE.—Samuel Wetherill, of Baltimore, Md.—Letters Patent No. 13,806, dated Nov. 13, 1855.
PLANING MACHINE.—Jas. A. Woodbury, of Boston, Mass.—Letters Patent No. 13,808, dated Nov. 13, 1855.
LATHE CHUCK.—Eli Horton, of Windsor Locks, Conn.—Letters Patent No. 13,787, dated Nov. 13, 1855.
TOBACCO PRESSES.—R. Kingsley, of Springfield, Mass.—Letters Patent No. 13,790, dated Nov. 13, 1855.

NEW PUBLICATIONS.

OUR HOME PHYSICIAN. By George M. Beard, M. D.
We are indebted to the publishers, Messrs. E. B. Treat & Co., 654 Broad-way, for a copy of this work, which we noticed in the SCIENTIFIC AMERICAN, August 28th, in advance of its publication. The volume is a very large one, with numerous illustrations, and treats of the structure and functions of the body, the influence of occupation on health and longevity; the laws of inheritance with new and original chapters on diet, stimulants, and narcotics, air, sunlight, exercise, climate, electricity, and nervous diseases of modern times; and full directions for the care of the sick, and the management of infants and children; with a general description of recent medical discoveries and improvements; plain suggestions for the treatment of diseases, adapted to the wants of the household, and for those who, like miners, sailors, planters, and dwellers in remote districts, are beyond the ready call of a physician. We have carefully examined this volume, and we do not hesitate to pronounce it one of great value to every family in the land.

APPLICATIONS FOR EXTENSION OF PATENTS.

CULTIVATOR TEETH.—Charles H. Sayre and George Klinek, Utica, N. Y. have applied for an extension of the above patent. Day of hearing Jan. 26, 1870.
MANUFACTURE OF IRON AND STEEL.—Henry Bessemer, of London, England, has petitioned for the extension of the above patent. Day of hearing, Jan. 26, 1870.
GEARING FOR FEED ROLLERS OF PLANING MACHINES.—Charles Burleigh, Georgetown, Colorado Territory, has applied for an extension of the above patent. Day of hearing, January 26, 1870.
REFINING IRON.—Christian Shunk, Philadelphia, Pa., has applied for an extension of the above patent. Day of hearing Jan. 26, 1870.
SEALING PRESERVE CANS.—R. H. Lewis, Sacramento, Cal., has petitioned for an extension of the above patent. Day of hearing Jan. 26, 1870.

Caveats are desirable if an inventor is not fully prepared to apply for his patent. A caveat affords protection for one year against the issue of a patent to another for the same invention. Patent fee on filing a caveat, \$10. Agency charge for preparing and filing the documents from \$10 to \$12. Address MUNN & CO., 37 Park Row, New York.
Inventors Examined at the Patent Office.—Inventors can have a careful search made at the Patent Office into the novelty of their inventions, and receive a report in writing as to the probable success of an application. Send sketch and description by mail, inclosing fee of \$5. Address MUNN & CO., 37 Park Row, New York