

Business and Personal.

The Charge for Insertion under this head is One Dollar a Line. If the Notices exceed Four Lines, One Dollar and a Half per Line will be charged.

- Wanted—an engine, 15 to 20-H. P. Also—2 cylinder boilers, about 30 in. diam., 25 to 30 ft. long. Address Adams & Bro., dealers in all kinds of Machinery, Salisbury, Md.
- Mill privilege wanted, either in Pa. or Va., about 100-H. P., to buy or lease. A. W. Macdonald, Jr., Room B, 37 Park Row, New York.
- Parties, wishing to invest in the best bean sheller and winower please address A. C. Sisson, Easton, Mass.
- Manufacturers of the best velocipedes are using our patented rawhide axle washers. For circular and sample address Darrow Manufacturing Co., Bristol, Conn.
- Builders of cotton-seed oil, cotton yarn, and Osnaburg weaving machinery address J. W. Bocage, Pine Bluff, Jefferson county, Ark.
- Green lumber dried in two days. Also, tobacco, meal, and every substance, cheaply. Circulars free. H. G. Bulkley, 135 Fulton st., New York.
- “Steam.”—You can get Broughton's lubricators and oil cups, which are the best, of John Ashcroft, 50 Johnst., New York.
- Norris' improved steam gage. Steam-gage repairs promptly attended to. Small machinery built to order. Address R. H. Norris, engraver and model maker, Paterson, N. J.
- The U. S. Clothes Ironer will iron clothes perfectly without heat. State rights for sale. Address J. Seaman, 257 State st., Chicago.
- Manufacturers of elastic strings, cords, bands, etc., in the United States. Address D. Buckler, London Postoffice, Ontario.
- Manufacturers of machines for making “Excelsior,” address C. D. Gordon, Glen Beulah, Wis.
- Patent right agents please address Box 230, New Britain, Conn., for description of valuable patent for sale on commission.
- For portable grist mills and mill machinery, address J. T. Phillips, No. 13 Adams st., Brooklyn, N. Y.
- For sale at a bargain—a complete barrel factory, nearly new. Address Hartmann, Laist & Co., Cincinnati, Ohio.
- Peck's patent drop press. Milo Peck & Co., New Haven, Ct.
- Diamonds or Carbon for mill-stone dressing, drilling, and all mechanical purposes. Also, Glaziers' Diamonds. See advertisement on another page.
- Brick clay lands for sale. Apply 19 Cliff st., New York, Room 7.
- Compound Lathe Chucks—Fairman's patent—The best in the market. Send for circular. Address Hutchinson & Laurence, 8 Dey st.
- Inventors' and Manufacturers' Gazette—an illustrated journal of new inventions and manufactures. Cheapest paper in the world. \$1 per year. Sample copies sent. Address Sattler & Co., Postoffice box 418, or 37 Park Row, New York City.
- Fine and complicated watches of every description repaired, etc., in all their branches, by H. F. Piaget, 119 Fulton st., N. Y. A practical workman and author of *The Watch*. All work warranted.
- Pickering's Velocipede, 144 Greene st., New York.
- For descriptive circular of the best grate bar in use, address Hutchinson & Laurence, No. 3 Dey st., New York. See Advertisement.
- Two-set knitting mill for sale—See advertisement back page.
- Glynn's anti-incrustator for steam boilers—the only reliable preventive. Causes no foaming, and does not attack the metals of the boiler. Liberal terms to Agents. Address M. A. Glynn & Co., 735 Broadway, New York.
- W. J. T.—We think the patent asbestos roofing manufactured by H. W. Johns, of this city, is the best substitute for tin or slate. It is cheap and easily applied.
- Inventors and patentees wishing to get small, light articles manufactured for them in German silver or brass, address Schofield Brothers, Plainville, Mass.
- Tempered steel spiral springs. John Chatillon, 91 and 93 Cliff st., New York.
- Two saw mills for sale. C. Bridgman, St. Cloud, Minn.
- For solid wrought-iron beams, etc., see advertisement. Address Union Iron Mills, Pittsburgh, Pa., for lithograph, etc.
- Punching and shearing machines. Doty Manufacturing Co., Janesville, Wis.
- Specialties in the Machinists' line. Parties desiring work of a special character address S. W. Gardiner, 6 Alling st., Newark, N. J.
- Responsible and practical engineers pronounce the Tupper Grate Bar the best in use. Send for a pamphlet. L. B. Tupper, 120 West st., N. Y.
- Iron.—W. D. McGowan, iron broker, 73 Water st., Pittsburgh, Pa.
- N. C. Stiles' pat. punching and drop presses, Middletown, Ct.
- Machinists, boiler makers, tanners, and workers of sheet metals read advertisement of Parker Brothers' Power Presses.
- Winans' boiler powder, N. Y., removes and prevents incrustations without injury or foaming; 12 years in use. Beware of imitations.
- The paper that meets the eye of all the leading manufacturers throughout the United States—The Boston Bulletin. \$4 a year.

Recent American and Foreign Patents.

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

- ELECTRO-MAGNETIC SIGNAL TELEGRAPHS.—W. R. Smiley, New Lisbon, Ohio.—The nature of this invention relates to an apparatus for making telegraphic signals by means of electro-magnets, and embodies improvements upon the analogous instruments heretofore in use.
- SCAFFOLD.—Frederick App, Selin's Grove, Pa.—The object of this invention is to provide a scaffold for house painters and other persons employed in working on the walls of buildings.
- PRUNING SHEARS.—D. B. Sceley, Portland, Ill.—This invention relates to a new and improved implement for pruning plants, bushes, trees, etc.; and it consists of a stationary hook-shaped blade in connection with a sliding one.
- STENCH TRAP AND OVERFLOW FOR BOWLS, CLOSETS, ETC.—John McClosky, New York city.—This invention relates to a new and improved method for constructing the stench traps and overflows of wash bowls, sinks, water closets, etc.; whereby the same are more simple in their construction, and are more easily cleaned out and repaired, and more effectually prevent the rising of noxious and unpleasant gases.

WINDOW BLIND AND DOOR HINGES.—L. R. Chapman, Grand Rapids, Mich.—This invention has for its object to furnish a neat, simple, convenient, and reliable self-adjusting hinge for doors, window blinds, etc., which shall be so constructed and arranged as to hold the blind or door securely locked when swung open, in such a way as not only to hold it securely, but also to prevent rattling.

BOAT AND DAVIT TACKLE.—Capt. Edgar Wakeman, Brooklyn, Cal.—This invention has for its object to improve the construction of my improved boat and davit tackle, patented April 2, 1867, and numbered 63,585, so as to make it stronger, and more convenient, reliable, and effective.

WATER ELEVATORS.—W. G. Hamilton, Milton, Wis.—This invention has for its object to furnish an improved apparatus for raising water, which shall be simple and durable in construction, and convenient and effective in operation.

WOOD-BENDING MACHINE.—Robert Pitts, Jr., Fitchburg, Mass.—This invention has for its object to furnish an improved machine, designed especially for bending the frames of chair seats, but which shall be equally adapted for bending wood for other purposes, and which shall be so constructed and arranged as to apply the pressure to the timber to be bent gradually and progressively until it is brought into the desired form.

HAMES FASTENING.—William Fawcett, New York city.—This invention has for its object to furnish an improved hame fastening, designed more particularly for the hames of light harnesses, and which shall be so constructed as to hold the hames securely against side strain, and at the same time be easily and conveniently detached and attached.

SMITHS' BELLOWS.—J. P. Hemmingsen, Marshalltown, Iowa.—This invention has for its object to improve the construction of the ordinary smiths' bellows, so that it may receive and retain a supply of air, to be given off gradually, to keep up a blast upon the fire to heat one piece of iron while the smith is working upon a piece previously heated, without the employment of a bellows blower being necessary.

STEAM ENGINE.—Horace Bartine Martin, San Francisco, Cal.—This invention relates to a new oscillating steam engine, which consists of a two-ended cylinder, in which two pistons are arranged, they being connected on the outside by means of a yoke. Steam is alternately let into the cylinders so as to act upon one of the pistons, the cut-off being produced by the weight of the yoke, and the pistons connected therewith.

SHOE KNIFE.—G. W. Spencer, South Groveland, Mass.—This invention relates to improvements in shoe knives, such as are employed on machines for channeling the soles of boots and shoes; and consists in certain improvements in the knife holder, and the combination with the knife of a grooving instrument for forming a groove in the channel for the thread.

PLOW TRUCK.—Joseph Clee, Darbyville, Ohio.—This invention relates to improvements in plow trucks, the object of which is to provide a simple and convenient arrangement for adjusting the same to vary the depth and width of the furrowing as may be required.

FIFTH WHEEL FOR VEHICLES.—Henry Poth, Pittsburgh, Pa.—The object of this invention is to provide a more simple and durable fifth wheel for vehicles than was heretofore in use. It is designed more particularly for buggies or spring wagons, and is applicable to such vehicles when constructed either with a single or double reach.

BRICK MACHINES.—Rembrandt Lockwood and Charles C. Schmitt, New York city.—This invention relates to improvements in brick machines, whereby it is designed by the employment of a sliding clay receiver, reciprocating molding apparatus, and delivering carrier arranged to receive the clay from the bottom of the mill, and carry it to the vertically reciprocating molding apparatus, where it is molded and delivered to the delivering carrying apparatus, which delivers the molded bricks from the mill, to provide an improved and simple apparatus for accomplishing the molding and pressing of bricks.

APPARATUS FOR LOADING ICE.—Peter F. Whitney, Saugerties, N. Y.—This invention relates to improvements in mechanism for receiving ice as it is shut from the store houses, and delivering it into the holds of vessels. The object of which is to reduce the labor, and preserve the ice from breaking. It consists of a framing to be placed over the hatchway of a vessel, having a rotating drum, from which is suspended a carriage, which, when in the elevated position, forms the termination of a chute extending to the bulwarks or thereabouts of the vessel to receive the ice. The said carriage is lowered into the hold by the weight of the ice, under the restraining action of a friction brake, and is raised again by a weight.

SPARK EXTINGUISHER.—E. H. Garrigues, St. Louis, Mo.—This invention relates to a new and improved device for extinguishing sparks from chimneys and smoke stacks.

MATCH SAFE.—Jesse E. Folk, Brooklyn, N. Y.—This invention relates to a new and useful improvement in boxes or safes for keeping lucifer matches whereby they are rendered much more convenient and useful than they have hitherto been, and it consists in forming on the top of the cover of such box or safe a receptacle for the stubs or waste ends of matches.

PROCESS FOR PREPARING ARTICLES FOR GILDING AND PLATING.—G. J. Sturdy and Solomon W. Young, Providence, R. I.—This invention relates to a new and improved process for finishing, gilding, or plating various metallic articles, as hooks and eyes, buttons, eyelets, and all metallic articles of a similar nature.

LUBRICATOR.—William McCully, Paterson, N. J.—This invention consists in providing a single cock, in combination with an oil reservoir and suitable oil passages, by which the oil, or other lubricating material, is distributed to each of the cylinders.

NEWSPAPER FILE.—Michael Sullivan and John Reedy, New York city.—This invention relates to a new and improved “file” for the preservation of newspapers, unbound periodicals, sheet music, and all descriptions of papers, whether printed or written, which papers it is desired to preserve in order, or to keep on file before binding.

HORSE HAY RAKE.—G. M. L. McMillen, Dayton, Ohio.—This invention is a simple, cheap, convenient, and effective device for automatically locking down the teeth so as to hold them in contact with the ground while allowing them to be easily raised by the attendant when occasion may require.

SAFETY LAMP BURNER.—John Pons, Baltimore, Md.—The object of this invention is to provide for public use a lamp so constructed and operating, that when, by being overturned, or from any other accident, the chimney shall drop off or cease to bear upon the cap, the flame of the lamp shall be automatically extinguished and all danger of explosion thereby avoided.

TANNERS' TABLE.—Franklin C. Sexton, Shelbyville, Ind.—This invention relates to a new and useful improvement in apparatus used by tanners in dressing and coloring hides in the process of making leather.

STACKING.—Robert McLarn, Shirland, Pa.—The object of this invention is to improve the process of thatching stacks of hay, grain, etc., that the labor can be more conveniently and expeditiously performed than heretofore, while the stack will be neat in appearance and will be well protected against the weather.

SAFETY CATTLE TIE.—Charles P. Winslow, Westborough, Mass.—The object of this invention is to provide means for releasing cattle, horses, or other animals which are tied in barns or stables, in case of fire, and thereby enabling them to escape.

STEAM ENGINE.—Henry B. Verry, New York city.—This invention relates to a new and important improvement in steam engines, and consists in the arrangement of the valves and ports whereby the steam is exhausted from the same ports through which it entered the cylinder.

CARRIAGE FOR SAWING SADDLE TREE STUFF.—James H. Preston, Jefferson City, Mo.—The object of this invention is to facilitate the construction of saddle trees. Heretofore it was customary in the manufacture of saddle trees to rive or split the billets of wood in order to give them the proper triangular cross section preparation, to working them down into “bars,” “cantles,” “heads,” and “side trees,” so-called, and other accessory parts of saddle trees that require to be beveled more or less. By means of this invention these enumerated parts may be sawed with the proper bevel or triangular cross section and a great saving thereby effected in time and material.

LOUNGE.—Francis Hayek, New York city.—The object of this invention is to provide a lounge with an arm or foot support at its open end, so that it may, if desired, be used like a sofa by two persons who can both support their arms. Such an attachment is also important, as it allows a convenient position on the foot end of the lounge, when on dark days it is desired to read on the lounge, whose foot end generally is nearer to a window than the head end. For reclining postures this attachment is also convenient as it forms a support for the feet.

SMOKING PIPE AND CIGAR HOLDER.—August Tappe, Johnstown, N. Y.—The object of this invention is to provide a new attachment to the stems or mouthpieces of pipes and cigar holders, whereby the tobacco juice is prevented from entering the mouthpiece and from thereby injuring the health of the smoker. The invention consists in the application within the stem of a perforated conical tube, suspended from a perforated diaphragm, and of a perforated tube projecting upward above said diaphragm, so that by the said tubes the juice will all be arrested and only smoke allowed to pass into the mouth piece.

PUDDLING-FURNACE FRAME.—P. E. Shear, Saugerties, N. Y.—The object of this invention is to construct the bit or tool-support of a puddling furnace door so that it cannot shrink and bend by coming in contact with the cold metallic surface underneath, and so that it can be moved in if its inner exposed edge has been destroyed by the excessive heat. Also, to so construct the frame of the door, that the fire brick, built against it, can be left stronger to be less liable to burn out.

FAN ATTACHMENT FOR TABLES.—J. C. Mansker, Clinton, La.—This invention relates to improvements in fan attachments for dining and other tables, to be operated by any suitable weight or spring mechanism, or by treadles, as may be preferred.

WATER SUPPLY REGULATOR FOR WATER WORKS.—Birdsill Holly, Lockport, New York.—The object of this invention is to provide an effective and reliable means for governing or regulating the supply of water in the street, or town water works. It is designed more particularly for those towns and cities where there is no material head to give the requisite pressure for carrying the water into the upper stories of the buildings, but is also applicable solely as a fire apparatus in any city, whether supplied with artificial water works or otherwise.

HAND SEED PLANTER.—John Jeffcoat, Onawa, Iowa.—This invention relates to a new hand seed planter, which is so condensed as to be of convenient size, and easily handled, and which is cheap and can be readily made by any ordinary mechanic. It can be used single or double; that is, one person can operate one or two of them at once, and the mechanism is easily adjustable to different kinds or quantities of seed to be planted.

UNCUT CAPS FOR CANS.—J. I. Livingston, Pittsburgh, Pa.—This invention relates to improvements in caps for sheet-metal cans, such as are designed to close a vessel hermetically, when packed for shipping and to be opened by cutting out a portion of the metal, the object of which is to promote an arrangement whereby the part to be cut out may be removed more readily, and whereby, also, the removable cap commonly applied to close the opening so cut out, may be attached more readily, or a plug or cork inserted in place thereof; also, to provide a cheaper construction.

PROCESS FOR BAKING BREAD, ETC.—J. Y. Betts, Coventry, England.—This invention relates to an improved process of baking, whereby the quality of the bread and other farinaceous articles operated upon will be greatly improved, the chemical change set up by the heat of the oven being more thorough throughout the loaf, and from which there result an economy to the manufacturer, and lighter and more wholesome bread (with an improved appearance) than is ordinarily obtained. These advantages are attained by the introduction of steam into the ordinary or any approved oven charged with the dough to be baked, and heated in any well-known or approved way. The steam will be supplied from an adjacent steam boiler. The oven is kept charged with an atmosphere of steam for the greater portion of the time that the charge of bread, biscuits, or other articles, is submitted to the heat of the oven, but before the oven is drawn the supply of steam is cut off. The heat of the oven will superheat the steam admitted thereto; and the more effectually to insure this result, the steam supply pipe may be coiled or given a turn or two round the interior of the oven. The steam admitted to the oven will serve to keep open the pores of the bread, and allow the heat effectually to penetrate the mass.

Official List of Patents.

Issued by the United States Patent Office.

FOR THE WEEK ENDING MARCH 2, 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.....	\$20
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.

Patents and Patent Claims.—The number of patents issued weekly having become so great, with a probability of a continual increase, has decided us to publish, in future, other and more interesting matter in place of the Claims. The Claims have occupied from three to four pages a week, and are believed to be of interest to only a comparative few of our readers. The publication of the names of patentees, and title of their inventions, will be continued; and, also, as heretofore, a brief description of the most important inventions. We have made such arrangements that we are not only prepared to furnish copies of Claims, but full Specifications at the annexed prices:

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.....\$1 upward, but usually at the price above named.

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.

Full information, as to price of drawings, in each case, may be had by addressing
MUNN & CO.,
Patent Solicitors, No. 37 Park Row, New York

- 87,317.—MACHINE FOR DRYING AND FINISHING TUBULAR KNITTED FABRICS.—Nelson P. Akin, Philmont, N. Y.
- 87,318.—METHOD OF SECURING COVERS TO GLASS PITCHERS.—Charles Ballinger (assignor to McKee and Brothers), Pittsburgh, Pa.
- 87,319.—USE OF NITROUS OXIDE AS AN ANESTHETIC AGENT.—W. P. Barker, Grand Rapids, Mich. Antedated Feb. 20, 1869.
- 87,320.—MEDICATED CIGAR.—Joseph Barrett, Chicago, Ill.
- 87,321.—SPRINKLER FOR WATERING POTS.—James Barrows, Hyde Park, Mass.
- 87,322.—APPLE PARER.—A. G. Batchelder, Lowell, Mass.
- 87,323.—BUTTER TUB.—George S. Batchelder, Saratoga Springs, N. Y.
- 87,324.—APPARATUS FOR DESTROYING INSECTS ON TREES.—Constant Baudoin and Alphonse Fletely, New York city.
- 87,325.—PROCESS OF TANNING.—J. F. Bechmann, Abbot's Corners, N. Y.
- 87,326.—CONCRETE-BRICK MACHINE.—Bolivar Bisbee, Ames, Iowa.
- 87,327.—FURNACE FOR ROASTING ORES.—S. W. Bullock, Elizabeth, N. J., assignor to Hamilton E. Towle, New York city. Antedated Feb. 12, 1869.
- 87,328.—BATE-BAND SHEARS.—A. H. Daniels, Manchester, N. H.

87,329.—SLIDING-DOOR SHEAVE.—Mark L. Deering, New York city.
87,330.—MACHINE FOR WHIPPING CLOTH.—Eben Eaton, Norwalk, Conn.
87,331.—SEWING MACHINE FOR SEWING SHOES.—G. W. Eldridge, Cambridgeport, Mass.
87,332.—MACHINE FOR PACKING COILED SPRINGS.—J. W. Evans, New York city.
87,333.—BOOT CRIMP.—Benjamin C. Finrock, Stephenson's Depot, Va.
87,334.—FUR BOX.—Maurice Fitzgibbons, New York city.
87,335.—SEAT FOR STREET CARS.—Charles H. Foster, San Francisco, Cal.
87,336.—FENCE.—Eugene L. Fraker, Oshkosh, Wis.
87,337.—MECHANISM FOR OPERATING THE SHUTTLE BOXES IN LOOMS.—Robert Burns Goodyear, Elkton, Md., assignor to Barton H. Jenks, Bridesburg, Pa.
87,338.—SEWING MACHINE FOR WORKING BUTTONHOLES.—J. A. House and H. A. House, Bridgeport, Conn., assignors to the Wheeler & Wilson Manufacturing Co., New York city.
87,339.—PRINTERS' FURNITURE.—Thomas J. House, Pittsburgh, Pa.
87,340.—PROCESS OF WORKING SILVER ORES.—Henry Janin, Virginia City, Nevada.
87,341.—LOOM.—Barton H. Jenks, Bridesburg, Pa.
87,342.—CARDING ENGINE.—Barton H. Jenks, Bridesburg, Pa.
87,343.—MEDICAL COMPOUND.—Alexander Johnson, Brockport, N. Y.
87,344.—TOY BOW.—F. W. Judd, New Britain, Conn.
87,345.—HORSE RAKE.—Edmund E. Lauer and Henry W. Eisenhart, York, Pa.
87,346.—PREPARED COFFEE.—Benj. B. Lewis, Bristol, Conn.
87,347.—HORSE HOE.—Calvin Lobdell, Fort Hill, Ill.
87,348.—REFRIGERATING CAR.—A. L. McCrea, Chicago, Ill.
87,349.—HOISTING GRAPPLE.—Thomas McGrath, Albany, N. Y.
87,350.—COMPOSITION FOR PRINTING DESIGNS ON BOOTS AND SHOES.—David McKellar, Lowell, Mass.
87,351.—RAILWAY SWITCH.—John McLaughlin and Benj. F. Dean, Columbia, Pa.
87,352.—METALLIC CARTRIDGE.—Joe V. Meigs, Washington, D. C.
87,353.—MECHANICAL MOVEMENT.—George R. Metten, Cleveland, Ohio.
87,354.—MANNER OF FORMING AND PRESSING BRICKS.—Joseph Miller, Olean, N. Y.
87,355.—VELOCIPEDE.—Frederick Myers, New York city.
87,356.—HILLING PLOW.—George Notman, Deerfield, Ohio.
87,357.—DITCHING MACHINE.—Abram B. Overbaugh (assignor to Oliver Reeves), Newark, N. J.
87,358.—CARRIAGE JACK.—Calvin H. Paine (assignor to himself and W. E. Barratt & Co.), Providence, R. I.
87,359.—MANUFACTURE OF PASTEBOARD.—H. L. Palmer, Stillwater, N. Y.
87,360.—CENTRIFUGAL ORE SEPARATOR.—S. T. Pearce, New York city.
87,361.—MACHINE FOR SEPARATING ORES AND OTHER GRANULAR SUBSTANCES.—S. T. Pearce, New York city. Antedated February 18, 1869.
87,362.—PLOW STOCK.—Lawson G. Peel, Preston, Ga.
87,363.—HORSE RAKE.—John Perry (assignor to himself and Benjamin C. Baker), Vernon, Ind.
87,364.—FENCE.—Thos. E. Phillips, Coatesville, Ind.
87,365.—MANUFACTURE OF ACETIC ACID.—Anthony Pirz and Manuel Pirz, East New York, N. Y.
87,366.—CAR COUPLING.—Theodore R. Power, Arsenal Post Office, Pa.
87,367.—LAMP.—Daniel C. Ripley, Pittsburgh, Pa.
87,368.—GARDEN HOE.—A. M. Ross, Iliou, N. Y.
87,369.—CONSTRUCTION OF SHEARS.—Joseph Ryals, Terrysville, Conn.
87,370.—TRUSS.—William Schnebly, Hackensack, N. J.
87,371.—WAR AND SIGNAL ROCKET.—Taliaferro P. Shaffner, Louisville, Ky.
87,372.—BLASTING IN OIL WELLS, ETC.—Taliaferro P. Shaffner, Louisville, Ky.
87,373.—CULTIVATOR.—D. Slaughter, West Hempfield township, Pa.
87,374.—FLYER FOR SPINNING MACHINE.—Aaron W. Smith, Manchester, N. H.
87,375.—PROPELLING APPARATUS.—C. T. Smith, Nyack, N. Y.
87,376.—CORN PLANTER, GRAIN DRILL, AND HARROW COMBINED.—H. Smith, Kirksville, Mo.
87,377.—SPINNING MACHINE.—John Speight, Bradford, England.
87,378.—CRADLE CHAIR.—Marietta Studley, South Yarmouth, Mass.
87,379.—SWEAT SHIELD FOR SADDLE PADS.—R. C. Sturges, Boston, Mass., assignor to "American Saddle Company."
87,380.—BEDSTEAD FASTENING.—George Sugg and William Metz, Chicago, Ill.
87,381.—FILE FOR GAGING THE TEETH OF CROSS-CUT SAWS.—W. G. Tuttle, Geneva, N. Y.
87,382.—APPLICATION OF GRAHAMITE IN THE MANUFACTURE OF GUNPOWDER AND LAMP GLASS.—P. H. Vander Weyde, New York city. Antedated Feb. 13, 1869.
87,383.—HAY SPREADER.—M. N. Ward (assignor to himself, B. S. Grant, and T. Hersey), Bangor, Me.
87,384.—HORSESHOE.—Wm. R. Watson, Stockton, Cal.
87,385.—METALLIC SCREEN FOR PAPER PULP.—A. S. Winchester (assignor to himself and Jas. S. Parsons), Boston, Mass.
87,386.—SCHOOL DESK AND SEAT.—W. S. Wooton (assignor to himself and J. F. Pfeil), Richmond, Ind.
87,387.—VALVES OF STEAM GUNS FOR SEPARATING AND DISINTEGRATING FIBERS.—H. Allen, New York city, assignor to the American Fiber Company.
87,388.—HULLING MACHINE.—A. Angell, Newburgh, N. Y.
87,389.—SCAFFOLD.—F. App (assignor to himself J. S. Burkhardt), Selin's Grove, Pa.
87,390.—ADMISSION OF STEAM TO BAKING OVENS.—John Y. Betts, Coventry, England, assignor to F. W. Betts, New York city. Patented in England, April 20, 1868.
87,391.—PREPARATION OF SOLDER.—C. D. Blinn, Port Huron, assignor to George Cary, Detroit, Mich.
87,392.—HAY SPREADER.—Nathan Brand, Iliou, N. Y.
87,393.—MEDICAL COMPOUND.—John Carnrick (assignor to Reed, Carnrick, and Andrus), New York city.
87,394.—ATTACHMENT TO REED ORGANS.—R. W. Carpenter, Chicago, Ill.
87,395.—MODE OF OPERATING TREMOLOS IN ORGANS.—R. W. Carpenter, Chicago, Ill.
87,396.—HINGE.—L. R. Chapman, Grand Rapids, Mich., assignor to himself, George H. Traxbury, and Elbert Ward. Antedated February 26, 1869.
87,397.—CATTLE FOOD.—J. Christie, Atlanta, Ill., and Henry G. Dayton, Maysville, Ky.
87,398.—PLOW TRUCK.—J. Clees, Darbyville, Ohio.
87,399.—CAR JUMPER.—C. C. Dow (assignor to himself and L. Hyton), Philadelphia, Pa.
87,400.—CULTIVATOR.—D. S. Early, Hummelston, Pa.
87,401.—CULTIVATOR.—Benj. M. Ely, Perry, Mo., assignor to himself, L. T. Tulley, and W. A. and L. P. Munger.
87,402.—HAMES FASTENING.—W. Fawcett (assignor to Fawcett Brothers and R. Campbell), New York city.
87,403.—SPRING BED BOTTOM.—J. A. Fegan, Brooklyn, N. Y.
87,404.—MACHINE FOR BENDING WOOD.—R. Fitts, Jr. (assignor to W. Haywood Chair Company), Fitchburg, Mass.
87,405.—MATCH SAFE.—J. E. Folk, Brooklyn, N. Y.
87,406.—SPARK ARRESTER.—E. H. Garrigues, St. Louis, Mo.
87,407.—MANUFACTURE OF PASTEBOARD.—William E. Hale, Chicago, Ill. Antedated Oct. 6, 1868.
87,408.—WATER ELEVATOR.—W. G. Hamilton, Milton, Wis.
87,409.—CLOTH GUIDE FOR SEWING MACHINE FOR WORKING BUTTONHOLES.—A. Harroun, Jr., Onondaga, N. Y.
87,410.—ROULETTE APPARATUS.—G. Hauschild, St. Louis, Mo.
87,411.—LOUNGE.—F. Hayek, New York city.
87,412.—SMITHS' BELLOWS.—J. P. Hemmingsen, Marshalltown, Iowa.

87,413.—WATER SUPPLY REGULATOR FOR WATER WORKS.—B. Holly, Lockport, N. Y.
87,414.—HAND-SEED PLANTER.—John Jeffcoat, Onawa, Iowa.
87,415.—UNCUT CAPS FOR CANS.—J. I. Livingston, Pittsburgh, Pa.
87,416.—BRICK MACHINE.—R. Lockwood and C. C. Schmitt, New York city.
87,417.—FAN ATTACHMENT FOR TABLES.—J. E. Mansker, Clinton, La.
87,418.—SASH FASTENER.—M. R. Margerum, Trenton, N. J.
87,419.—OSCILLATING ENGINE.—H. B. Martin, San Francisco, Cal.
87,420.—PLOW.—E. G. Matthews, Newton, Mass.
87,421.—PLOW CLEVIS.—E. G. Matthews, Newton, Mass.
87,422.—STENCH TRAP AND OVERFLOW FOR BASINS.—John McCloskey, New York city.
87,423.—LUBRICATOR.—W. McCully, Paterson, N. J.
87,424.—MODE OF FASTENING TRUSSES.—R. McGee, Martinsville, Ind.
87,425.—THATCHING FOR STACKS OF HAY AND GRAIN.—R. McLarn, Shirland, Pa.
87,426.—SEEDING MACHINE.—George Paddington, Springfield, Iowa.
87,427.—TREMLO FOR WIND INSTRUMENTS.—Robt. W. Pain (assignor to Brainard and Wing), New York city.
87,428.—LAMP SHADE.—J. F. Phelps, Havana, N. Y.
87,429.—FIFTH-WHEEL FOR CARRIAGES.—Henry Poth, Pittsburgh, assignor to himself and G. A. Klages, Birmingham, Pa.
87,430.—CARRIAGE FOR SAWING SADDLE TREE STUFF.—James H. Preston, Jefferson City, Mo.
87,431.—CENTRING DEVICE.—N. L. Revere, Worcester, Mass.
87,432.—PROCESS OF PREPARING BAMBOO FIBER.—Louis S. Robbins, New York city, and John A. Southmayd, Elizabeth, N. J.
87,433.—MANUFACTURE OF FLOCK FROM BAMBOO OR CANE FIBER.—Louis S. Robbins, New York city, and John A. Southmayd, Elizabeth, N. J.
87,434.—MANUFACTURE OF OAKUM.—Louis S. Robbins, New York city, and John A. Southmayd, Elizabeth, N. J.
87,435.—HYDRAULIC LIFTING JACK.—Joseph Ryan, St. Louis, Mo.
87,436.—PRUNING SHEARS.—D. B. Seeley, Portland, Ill.
87,437.—TANNERS' TABLE.—Franklin C. Sexton, Shelbyville, Ind.
87,438.—DOOR OR FRAME OF PUDDLING FURNACES.—Peter E. Shear (assignor to himself and William Mulligan), Saugerties, N. Y.
87,439.—FIRE ALARM TELEGRAPH.—W. R. Smiley, New Lisbon, Ohio.
87,440.—SHOE KNIFE.—George W. Spencer, South Groveland, Mass.
87,441.—SMUT MACHINE.—Wm. P. Springer, Oswego, N. Y.
87,442.—PROCESS OF CLEANING METALLIC ARTICLES FOR PLATING AND GILDING.—George J. Sturdy and Solomon W. Young, Providence, R. I.
87,443.—PAPER FILE.—Michael Sullivan and John Reedy, New York city.
87,444.—SMOKING PIPE AND CIGAR HOLDER.—August Tappe, Johnstown, N. Y.
87,445.—RAILWAY CAR WHEEL.—Theodore R. Timby, Saratoga, N. Y.
87,446.—CASE FOR PRESERVING BUTTER, CHEESE, AND OTHER ARTICLES.—Theodore R. Timby, Saratoga, N. Y.
87,447.—BARREL FOR COOLING FLUIDS.—Gustave Verplaetse, New York city.
87,448.—STEAM ENGINE VALVE GEARING.—Henry B. Verry, New York city, assignor to himself, G. Koonz, New York city, and D. G. Whitman, North Kingston, R. I.
87,449.—BOAT-DETACHING APPARATUS.—Edgar Wakeman, Brooklyn, Cal.
87,450.—HORSE POWER.—Seth Wheeler, Albany, N. Y.
87,451.—SHOE FASTENING.—L. F. Whitman and O. P. Whitman, Macomb, Ill.
87,452.—APPARATUS FOR LOADING ICE.—Peter F. Whitney, Saugerties, N. Y.
87,453.—MINING MACHINE.—David Williamson, Elizabeth, Pa.
87,454.—SAFETY CATTLE TIE.—Charles P. Winslow, Westborough, Mass.
87,455.—BURNING KILN FOR BRICKS, TILES, ETC.—Henry Aiken, Pittsburgh, and Henry McAllister, Jr., and Henry G. Morris, Philadelphia, Pa.
87,456.—ROTARY BLOWING FAN FOR FURNACES, GAS WORKS, ETC.—Henry Ailand, London, England, assignor to Samuel and George Ailand.
87,457.—CLOTHES MANGLE.—Daniel Arndt, Toledo, Ohio.
87,458.—SPRING LINK FOR PLOW CLEVIS.—John Ball, Canton, Ohio.
87,459.—STOVE PIPE.—J. W. Bates, St. Paul, Minn.
87,460.—LOCK NUT ATTACHMENT FOR RAILROAD CHAIRS.—G. W. R. Bayley, Aiklers, La.
87,461.—VIOLIN BRIDGE.—Samuel Boden, Louisville, Ky.
87,462.—LOCOMOTIVE ALARM BELL.—Benjamin Briscoe, Detroit, Mich.
87,463.—INVALID BED AND BEDSTEAD.—Smith S. Brown, Woonsocket, R. I.
87,464.—PUNCH, SHEARS, AND IRON SHRINKER COMBINED.—Dennis C. Burdick, Milton, Wis.
87,465.—LIFTING APPARATUS.—D. P. Butler, Boston, Mass.
87,466.—MANUFACTURE OF ILLUMINATING GAS.—Car Carpenter, Buffalo, N. Y.
87,467.—MANUFACTURE OF INDIA-RUBBER TRUNKS, VALISES, BOXES, ETC.—John H. Cheever, New York city.
87,468.—STEAM ENGINE MECHANISM.—Mirtillow R. Clapp, New York city, assignor to himself and Edward D. Jones, Brooklyn, N. Y.
87,469.—SHUTTER FASTENER.—Edwin S. Collamer, Georgetown, D. C.
87,470.—POST HOLE AUGER.—S. W. Corbin, Bainbridge, N. Y.
87,471.—THREE-HORSE EQUALIZER.—Joseph E. Coveney, Buchanan, Mich.
87,472.—RAILROAD CAR HEATER.—Archibald C. Crary, Utica, N. Y.
87,473.—NAILING OR PEGGING MACHINE.—J. B. Crosby, Boston, Mass.
87,474.—MACHINE FOR MAKING SPIKES.—Ferdinand Davison, Liberty, Va.
87,475.—ENAMELING IRON AND STEEL.—Jules George Dreyfus, New York city.
87,476.—APPARATUS FOR BURNING GASES FOR METALLURGIC AND OTHER PURPOSES.—Cyprien Marie Tessié du Motay, Paris, France, assignor to Edward Stern, New York city.
87,477.—PREPARING ZIRCONIA FOR USE IN PRODUCING LIGHT, AND FOR OTHER PURPOSES.—Cyprien Marie Tessié du Motay, Paris, France, assignor to Edward Stern, New York city.
87,478.—PROCESS AND APPARATUS FOR GENERATING COMBUSTIBLE GASES.—Cyprien Marie Tessié du Motay, Paris, France, assignor to Edward Stern, New York city.
87,479.—MANUFACTURE OF IRON AND STEEL.—Cyprien Marie Tessié du Motay, Paris, France, assignor to Edward Stern, New York city.
87,480.—LAMP BURNER.—R. N. Eagle, Washington, D. C.
87,481.—LEATHER-CUTTING MACHINE.—Hemon Eichler, New Lisbon, Wis.
87,482.—APPARATUS FOR RENDERING LARD, TALLOW, ETC.—Charles J. Everett, New York city.
87,483.—STONE DRESSING MACHING.—A. M. George (assignor to himself and B. F. George), Nashua, N. H.
87,484.—PLOW POINT.—Edward C. Gero and James N. Cooley, Kalamazoo, Mich.
87,485.—MANUFACTURE OF LUBRICATING OILS FROM PETROLEUM.—Samuel Gibbons, Freedom, Pa., assignor to Excelsior Oil Manufacturing Company of Pennsylvania.
87,486.—STREET-CAR DRAW BAR.—John C. Gove, Cleveland, Ohio.
87,487.—PROCESS OF PURGING AND DRAINING SUGAR.—W. H. Guild, Brooklyn, E. D., N. Y.
87,488.—HARVESTER.—J. C. Hall, Monroe, Wis. Antedated February 20, 1869.
87,489.—BED BOTTOM.—J. J. Harris, Pewamo, Mich.
87,490.—SEED SOWER.—Alexander Hathaway, Independence, Iowa.
87,491.—ICE TONGS.—Randolph Hayden (assignor to Ferree and Hayden), Middletown, Conn.
87,492.—CULTIVATOR.—G. J. Hayes, Ionia, Mich.

87,493.—MACHINE FOR BUNDLING CIGARS.—F. A. Henckell, New York city.
87,494.—DEVICE FOR SOLDERING TIN CANS.—W. H. Henderson, Franklin, Ind. Antedated Feb. 20, 1869.
87,495.—MACHINE FOR BRUSHING AND NAPPING HATS.—Jos. W. Hopkins (assignor to himself and Chas. B. Hardick), Brooklyn, N. Y.
87,496.—CAR WHEEL.—R. B. Huguin, Cleveland, Ohio.
87,497.—DEVICE FOR CHECKING HORSES.—Theodore Itzstein, New York city.
87,498.—PROJECTILE.—R. H. Jones, San Francisco, Cal. Antedated Feb. 21, 1869.
87,499.—FLY-NET FOR HORSES.—S. B. Kline, Mechanicsburg, Pa. Antedated Feb. 27, 1869.
87,500.—BUCKLE FOR GRAIN-BANDS, BAG-TIES, ETC.—Le Grand Kniffen, Rochester, Pa.
87,501.—THRILL COUPLING.—E. Lane, Philadelphia, Pa.
87,502.—WASH BOILER.—Alex. Lee, Scranton, Pa.
87,503.—FLAT-IRON SCRAPER, POLISHER, AND STAND.—Wm. B. Mason, Boston, Mass.
87,504.—HORSE RAKE.—G. M. L. McMillen, Dayton, Ohio.
87,505.—COTTON PRESS.—J. J. Morrison, Atlanta, assignor to himself and V. A. Gaskell, Fulton, Ga.
87,506.—GLASS MOLD.—Thos. G. Otterson (assignor to S. B. Rowley), Philadelphia, Pa.
87,507.—APPARATUS FOR HARDENING STEEL.—D. O. Paige, Detroit, Mich.
87,508.—KNITTING MACHINE.—Robert Peberdy (assignor to Jas. Creighton), Philadelphia, Pa.
87,509.—PIANOFORTE.—D. T. Peck, New York city.
87,510.—REVERSIBLE KNOB LATCH.—Frank P. Pheggar, New Haven, Conn.
87,511.—LAMP EXTINGUISHER.—John Pons (assignor to himself, J. S. Russel, and Henry Vogler), Baltimore, Md.
87,512.—MACHINE FOR ROLLING METALS.—George Reynolds, Collinsville, Conn.
87,513.—WATER METER.—Ira Robbins, Hughesville, Pa.
87,514.—LOCK FOR DRAWERS, ETC.—Ira Robbins, Hughesville, Pa.
87,515.—SCREW FASTENING FOR THE COVERS OF FRUIT JARS.—S. B. Rowley, Philadelphia, Pa.
87,516.—LIQUID METER.—Thomas A. Searle, Providence, R. I.
87,517.—WOODEN RAILWAY.—J. Y. Smith, Pittsburgh, Pa.
87,518.—KEY FOR LOCKS.—F. W. Smith, Jr., Bridgeport, Ct.
87,519.—FURNACE STOVE AND REGISTER.—Earl Spaulding, Ionia, Mich.
87,520.—ROCKING CHAIR.—Geo. H. Spaulding, Rockford, Ill.
87,521.—MILK COOLER.—E. P. Spencer, Scott, N. Y.
87,522.—GAS-COCK.—Matthias Stratton, Philadelphia, Pa.
87,523.—BLOWER CASE.—Benjamin F. Sturtevant, Boston, Mass.
87,524.—CAR STARTER.—R. R. Taylor, Reading, Pa., assignor to himself, J. H. Boone, J. M. Heller, and C. B. Bertolette.
87,525.—RAILWAY RAIL CHAIR.—Geo. Tefft, Salem, N. Y.
87,526.—LAMP SHADE.—J. F. Travis (assignor to Archer and Hancock Manufacturing Company), New York city.
87,527.—SHIFTING RAIL FOR CARRIAGE TOPS.—J. J. Waldron, East Durham, N. Y., assignor to himself, T. G. Palmer, and Henry Brown.
87,528.—STOP-MOTION MECHANISM FOR WARPING MACHINE.—Henry Weber, New York city.
87,529.—RAILWAY SWITCH.—William Wharton, Jr., Philadelphia, Pa.
87,530.—PICK FOR DRESSING MILLSTONES.—Comelius Whitehouse, Bridgetown, near Cannock, England.
87,531.—WRENCH FOR BIT-BRACES.—Darius Wilcox, (assignor to himself and E. A. Johnson), Ansonia, Conn.

REISSUES.

24,397.—LAMP.—Dated June 14, 1859; reissue 3,315.—R. S. Merrill, Irasburg, Vt.
85,121.—WATER SUPPLY REGULATOR.—Dated Dec. 22, 1868; reissue 3,316.—G. F. Nutting, Chicago, Ill.
79,395.—VENTILATOR.—Dated June 30, 1868; reissue 3,317.—E. L. Roberts, New York city.
73,524.—MACHINE FOR DRESSING MILLSTONES.—Dated January 21, 1868; reissue 3,318.—H. B. Sears, Liverpool, England, assignee of Samuel Golay.
36,161.—VELOCIPEDE.—Dated August 12, 1862; reissue 3,319.—S. W. Smith, New York city, assignee of P. W. MacKenzie.
44,130.—APPARATUS FOR CONCENTRATING METALLIC ORES.—Dated September 6, 1864; reissue 3,320.—Zenas Wheeler, San Francisco, Cal.
47,334.—FRUIT JAR.—Dated May 23, 1865; antedated Dec. 6, 1864; reissue 3,321.—S. B. Rowley, Philadelphia, Pa., assignee, by mesne assignments, of Chas. G. Inley.

DESIGNS.

3,392. and 3,393.—STOCKING FABRIC.—Conyers Button, Philadelphia, Pa. Two patents.
3,394.—BUCKLE LOOP.—Edward N. Crane, Newark, N. J.
3,395.—TRADE MARK.—D. F. Packer, Mystic River, Conn.
3,396.—PICTURE FRAME.—W. H. Sadler, Baltimore, Md.
3,397. and 3,398.—LEG OF A STOCKING.—Charles Spencer, Philadelphia, Pa. Two patents.
3,399.—BLOWER CASE.—B. F. Sturtevant, Boston, Mass.
3,400.—BOOT.—Amelia Strang, Oakland, Cal.
3,401.—FLOWER POT.—William Sutherland and Thos. I. Lewellen, Philadelphia, Pa.
3,402.—SPOON OR FORK HANDLE.—William K. Vanderslece and Lucius Thompson, San Francisco, Cal.
3,403.—FLOOR OIL-CLOTH PATTERN.—John T. Webster, New York city.

NEW PUBLICATIONS.

A DICTIONARY OF DYEING AND CALICO PRINTING. Containing a brief Account of all the Substances and Processes in Use in the Arts of Dyeing and Printing Textile Fabrics; with Practical Receipts and Scientific Information. By Charles O'Neill, Analytical Chemist, Fellow of the Chemical Society of London, etc., etc. To which is added an Essay on Coal Tar Colors, and their Application to Dyeing and Calico Printing. By A. A. Fesquet, with an Appendix on Dyeing, as shown at the Exposition of 1867. Philadelphia: Henry Carey Baird, 406 Walnut street.

This is a reprint of a well-known and valuable treatise on dyeing and calico printing, with such additions as bring the work fully up to the present state of these arts. The extent and value of these additions will be appreciated by those familiar with the English editions of the work, and the wonderful advances that have been recently made in the art of dyeing. The style in which the work is printed, as well as the treatment of the subject matter, alike recommend it to the technical reader, to whom we can commend as a first-class work.

We have received the "Almanac" of the British Journal of Photography for 1869. It is replete with interesting information and many valuable formulas pertaining to the beautiful art.

Inventions Patented in England by Americans.

[Compiled from the "Journal of the Commissioners of Patents."]

PROVISIONAL PROTECTION FOR SIX MONTHS.

3,158.—MANUFACTURE OF WATER AND DRAIN PIPES.—J. E. Hughes and I. S. Church, San Francisco, Cal. October 15, 1868.
370.—PUDDLING AND OTHER FURNACES.—Samuel Danks, Cincinnati, Ohio February 6, 1869.
384.—STEAM ENGINE GOVERNORS.—William Bells, Richmond, Ind. Feb. 8, 1869.
385.—PUDDLING AND OTHER FURNACES.—Samuel Danks, Cincinnati, Ohio. February 8, 1869.