

Recent American and Foreign Patents.

Under this heading we shall publish weekly notes of some of the more important new inventions and foreign patents.

CLAMP ATTACHMENT TO SAW HORSES, ETC.—Frederic W. Mansfield, Fitchburg, Mass.—This invention relates to a method of constructing portable clamps for holding wood firmly upon a saw horse or bench, whereby wood may be sawed or cut with less fatigue to the operator.

EXPANDING PULLEY.—Thomas H. Savery, Wilmington, Del.—The object of this invention is to provide an expanding pulley the operation of which is more perfect for the use intended than others heretofore in use.

REEL FOR HARVESTERS.—G. W. N. Yost, Corry, Pa.—The object of this invention is to produce a reel which can be adjusted for straw of different height which will not thrash the grain out while throwing it back and which can be easily folded together for transportation.

MOWING MACHINE.—G. W. N. Yost, Corry, Pa.—This invention consists in the manner of arranging the frame of the machine. The same is composed of a horseshoe-shaped metal bar or plate to the two ends of which the shoe at the inner end of the finger bar is secured. The main body of the frame is about on a level with the driving shaft of the machine while its two ends are bent down to reach to the shoe and to be hinged to the finger bar.

NARROW SWATH HARVESTER.—G. W. N. Yost, Corry, Pa.—The object of this invention is to produce a harvester which can be drawn by one horse and which can mow as much grain as can be bound by one man riding on the platform of the machine. One man for binding, one boy for driving, and one horse will be all that is required to operate the machine.

CARPET WEAVING MACHINE.—Moritz Wolf, Philadelphia, Pa.—This invention relates to an arrangement of the Jacquard attachment of a carpet loom, and consists in the use of a double set of needles by which the harness is operated. Two figure cylinders are employed, one for each set of needles. One cylinder is provided with figure cards in the usual manner and raises as many of the vertical needles which constitute one set as have to be lifted according to the pattern. The vertical needles which are raised elevate the ends of the horizontal needles which constitute the other set and those horizontal needles which are thus elevated will at the next stroke of the upper cylinder, which has only holes but no cards, be thrown back as they will not fit into the holes of the cylinder and thereby the threads of the harness with which such needles are connected will be thrown into the lifter or knife so as to be elevated by the same during its next move.

APPARATUS FOR DISTILLING WOOD, ETC.—Gaspar Hunziker, Summit, Miss.—This invention relates to a method of constructing an apparatus for distilling wood and stone coal, whereby the resin and tar contained in the same are more effectually separated from the charcoal or carbon, and whereby the same is more economically done.

AGGERS AND BITS.—James Swan, Seymour, Conn.—This invention relates to a machine for manufacturing screw augers and bits, and it consists in a novel arrangement of dies and a clamp, whereby bits and augers may be very expeditiously manufactured, and at a moderate cost.

FLUE BLOCK.—John Binns, Oskaloosa, Iowa.—This invention relates to a flue block for stovepipes to pass through in a partition or flooring, in order to prevent heated pipes from firing the building.

ENAMELING MOLDINGS.—John Johnson, Boston, Mass.—This invention relates to a machine for enameling moldings, preparatory to gilding the same, and it consists in a new and improved heating arrangement for warming the preparation, smoothing brushes, and a scraper, all arranged in such a manner that the desired work may be performed expeditiously and in a perfect manner.

EXPANSION ENGINE.—A. Seely, Alton, Mo.—This invention consists in an improved method of expanding steam in two cylinders, the pistons of which are connected with cranks at right angles on the same shaft, whereby the expansion of steam in two connected cylinders can be made available and practicable on boats or elsewhere.

VOTE REGISER.—N. A. Patterson, Winchester, Tenn.—This invention relates to the registering of votes of the members of an assembly and consists of a column of blocks bearing the raised names of such members, and so connected by wires that they can be actuated to indicate the negative or affirmative votes of each member. The invention contemplates the subsequent printing of the whole vote, and its mechanism is arranged with reference to that end.

SLEIGH.—Chester Heald, Marshalltown, Iowa.—This invention relates to the construction of sleighs, and certain braking mechanism attached thereto.

SHINGLE MACHINE.—Luther H. Dodge, Oshkosh, Wis.—This invention relates to shingle machines, and is more particularly designed as an improvement upon that known as the "Valentine Shingle Machine," though it may be applicable to other machines, having a similar operation of the carriage. It consists in actuating the carriage holding the shingle block back from the saw, by the positive movement of a revolving arm, thus dispensing with the spring now used for that purpose, and obviating the disadvantages attending the use of such springs.

HOE.—Josiah Dodge, Grass Valley, Cal.—This invention consists in making the hoe with a horn or pick attached to the blade, and with a forked shank, thereby adapting it to various new and useful purposes, and rendering it much more strong and durable than the ordinary hoe.

MILL STONE DRESS.—H. L. Spencer, Social Circle, Ga.—This invention relates to an improved method of dressing mill stones for grinding wheat, corn, or other grain.

SELF-LIGHTING APPARATUS.—Gustav Müller, Newark, N. J.—This invention relates to certain improvements on the well known Döbereiner's inflammable lamp, and consists in arranging the tube through which the hydrogen passes in a vertical position, and in suspending the spongy platinum above the same, and in protecting the platinum in a perforated bell.

PANTALOON MEASURING RULE.—Patrick W. Dolan, Jersey City, N. J.—This invention has for its object to furnish a simple and easy way for obtaining the correct measurement for gentlemen's pantaloons, so that no mistake can be easily made in the length and other measurements, and the invention consists in an extended rule, with a measuring tape attached thereto.

CANAL BOAT PROPELLER.—D. H. Heyen, New York city.—This invention has for its object the construction and arrangement of a propeller wheel which shall be adapted to the propulsion of boats on canals, more especially, but which may be used to propel boats on all navigable waters.

COMBINED MOWER AND REAPER.—G. W. N. Yost, Corry, Pa.—This invention relates to a mower and reaper, so arranged that the finger bar and its appendages can be easily raised over obstructions, while mowing, and can be held in an elevated position for reaping, the finger bar being held steady and prevented from lateral motion by a guide, in which the finger bar plays up and down.

DISTILLING APPARATUS.—Adolph Meyendorff, New York city.—This invention relates to a distilling apparatus, so arranged that it will distill directly from the mash, and so that none of the alcoholic contents of the mash are lost, and the spirits separated, according to their degree of purity, and that the condensed liquid in the rectifier will be decomposed so as to give off any alcoholic parts that may remain in it. The invention consists chiefly in the use, in one apparatus, of two stills, which are connected by means of pipes in such manner that the vapors arising from one will be forced through the mash in the other, so as to take up all the alcohol that would otherwise remain in the second still.

CAR AXLE CAP.—William Weits, Pana, Ill.—This invention has for its object to furnish an improved cap for car axles, which shall be simple in construction, effective in operation, and easily opened and closed.

CROZES.—John C. Hofer, Bell Air, Ohio.—This invention has for its object to improve the construction of crozes, designed especially for slack work, such as flour, apples, sugar, cracker, and salt barrels, nail kegs, and other cooerage of similar character.

WIND MILL.—G. J. Thorn, Peconica, Ill.—This invention relates to a method of constructing wind mills, whereby the fans of the same are always

in proper position with respect to the direction of the wind, and the speed of the same is more uniform and regular.

RETORTS.—J. D. Perrin & Joseph Saunders, Brooklyn, N. Y.—This invention relates to a new manner of arranging retorts for concentrating sulphuric acid and other purposes, so that circulation of the liquid to be concentrated or evaporated may be produced in a series of retorts at once, the liquid flowing from one retort to the other.

SASH FASTENER.—Ralph Thomas, Waterbury, Conn.—This invention relates to a sash fastener, which consists of a spring bolt, fitted in a case, secured to the upper edge of the lower sash, and of a cap hinged to the lower bar of the upper sash; the cap can be locked by means of the bolt to the case, and thereby the two sashes are locked together securely, so that they cannot be opened unless the cap is first released from the bolt.

CLEVIS IRON.—Thomas P. Warren, Norfolk, Va.—This invention is a simple, cheap and durable clevis, that can be attached to a plow beam of any size, by which the plow can be adjusted more or less "to land," and can be caused to cut a deep or shallow furrow, as may be desired.

BRUSH.—John F. W. Dorman, Baltimore, Md.—In this invention the bristles are put up in separate packages, one of which answers for a brush; and a new but cheap device is employed to attach them to the handle. The packages are designed to be made and sold independently of the handle, to which they can in a moment be attached, or from which they can be detached—so that at any time when the bristles wear out or become damaged they can be removed and new ones substituted.

CHURN DASHER.—J. D. Kellogg, Jr. Northampton, Mass.—This invention relates to a new form of churn dasher, by which the butter can be more quickly and easily made and gathered than by any hitherto in use, it being only necessary to rotate the dasher in one direction to make the butter, and in the reverse direction to gather it.

CUTTER HEAD AND SPINDLE FOR MACHINES FOR PLANING, RABBETING, MOLDING, ETC.—Frank Douglas, Norwich, Conn.—This invention comprises three important features: First, a new method of adjusting the cutters in the head, by which they can be held more firmly, and by which cap cutters, consisting of two single cutters, can be employed; second, in a new form of cutter spindle and a new method of attaching it to the shaft, by which it can be instantly adjusted with perfect accuracy, and so held for any length of time; and thirdly, in a new method of stopping the spindle shaft, by which it can be easily adjusted and oiled, and by which its friction is greatly diminished.

TRACTION RAILWAY BRAKE.—Rudolph d'Heurense, San Francisco, Cal.—This invention consists in the application of double flanged or grooved driving-wheel to locomotive engine.

BED CLOTH HOLDER.—J. B. Munson, Baily Hollow, Pa.—This invention has for its object to furnish an improved device for securing the bed cloths in place upon the bed, so as to prevent them from being thrown out of place by the restlessness of the sleeper.

SPRING BED BOTTOM.—E. Gibbs, and O. W. Gibbs, Richland Center, Wis.—This invention has for its object to furnish an improved spring bed bottom, simple and durable in construction, which will not allow the head part to tip down, and which will be noiseless, easy, and comfortable in use, whether lain upon by a light or heavy person.

VISE.—F. B. Johnson, De Witt, Iowa.—This invention has its object to furnish a simple and convenient bench vise which shall be so constructed as to adapt itself to the shape of the object to be held whether said object be straight or tapering.

SHINGLE MACHINE.—Lyman Jennings, Winchenden, Mass.—This invention consists in the horizontal action of the cutter and elevating block rest, together with the mechanism conducting to the operation of the same.

CAR BRAKE.—Wm. T. Parsons, Thomasville, Ga.—This invention relates to an improved rail-car brake, which consists of shoes pendant with suitable mechanism, whereby they are let down under the wheel and partially receiving the weight of the latter, act as a check to stop its revolution.

TREESHINKING AND PUNCHING MACHINE.—Walter Britton, Abingdon, Ill.—The object of this invention is to accomplish the shrinking of wheel tires in a simple and effective manner.

APPLE PARING AND CORING MACHINE.—Andrew Clark, La Fayette, Ind.—The object of this invention is to produce a machine by means of which apples and other similar fruit may be pared, cored, and quartered in an expeditious and rapid manner.

MACHINE FOR DOUBLE LAPPING SHEET METAL.—Geo. H. Goldsmith, Waverly, Ill.—This invention relates to a machine chiefly used by tinsmiths. It consists of an automatic break bar for bending the tin with a double lap at the edge, together with other devices perfecting the operation of the whole.

SAW GUIDES.—T. Milner, Houston, Texas.—The nature of this improvement consists in the arrangement of the parts constituting the parts of a guide for circular saws, so that they can be operated with facility and accuracy, together with devices for improving and perfecting the whole.

BREAST PUMP.—Wm. T. Fry, New York city.—This invention relates to an improvement in breast pumps of that class which are provided with an elastic bulb for producing the necessary suction.

PAD BILLET.—Lydia Hays, Ames, Iowa.—This invention relates to a pad billet for harnesses, and it consists in a novel construction of parts, whereby several advantages are attained over the ordinary leather billet.

ROPE TRACES.—Thomas Newman, New Orleans, La.—This invention relates to an improvement in rope traces for harnesses and it consists in a novel manner of securing the clips to the trace, whereby firm connections of the trace with the collar hames and whiffletrees are obtained, and the trace adapted for all kinds of harnesses.

PAPER BOX.—William Armour, Belfast, Ireland.—This invention relates to an improvement in the construction of fancy paper boxes, designed more especially for holding gloves, handkerchiefs, confectionery, etc. The object of the invention is to obtain by a simple arrangement two compartments which, when the box is opened, are both accessible, each being provided with a separate or independent lid. The invention has also for its object a fastening by which the box may be kept in a closed state and still be readily opened when closed, the device as a whole being designed as a new and improved article of manufacture for the purpose specified, both useful and chaste or ornamental.

COMBINATION OF SQUARE AND BEVEL.—H. G. Taylor, Port Hope, C. W.—This invention consists in a combination of a square and bevel, whereby the blade may be set at any required angle or bevel, and at the same time a square be always reserved.

SHARPENING CUTLERY.—Augustus Thayer, Albany, N. Y.—This invention relates to a device for sharpening cutlery, and is more especially designed for sharpening table cutlery, scissors, pocket knives, etc., but it may be used for sharpening cutlery of various kinds.

JOURNAL BOX.—James Robnett, Petersburg, Va.—This invention relates to an improvement in that class of bearing pieces employed in car axle boxes, in which the bearing of the body piece is of iron, the main portion of the convex surface being of Babbit metal, and the central portion being of brass. The improvement consists in a new method of attaching the brass central plate to the iron body of the bearing piece, whereby the former will be more securely held in position, and prevented from working out, or being thrown out by any accident.

IMPROVED TOOL FOR REJEWELING WATCHES.—C. Hopkins, Philadelphia, Pa.—This tool is designed to facilitate the work of the watch repairer, in lifting the flange of the socket or bezel in which the previous jewel, now broken out, was set, so that the new jewel can be readily dropped into place. It may also be employed for reaming out the socket or bezel where it is too small for the new jewel, or has been damaged by the breaking out of the old one.

EXTENSION NOTICES.

Elias Ingraham of Bristol, Conn., having petitioned for the extension of a patent granted to him the 3d day of September, 1861, for an improvement in design for clock case front, for seven years from the expiration of said

patent, which takes place on the 3d day of September, 1868, it is ordered that the said petition be heard at the Patent Office on Monday, the 17th day of August next.

Gardner Chilson, of Boston, Mass., having petitioned for the extension of a patent granted to him the 26th day of September, 1855, and reissued the 27th day of September, 1864, for an improvement in furnace or heat regulator and radiator, for seven years from the expiration of said patent, which takes place on the 26th day of September, 1868, it is ordered that the said petition be heard at the Patent Office on Monday, the 31st day of August next.

Wm. H. Atkins and Joseph C. Burritt, of Ithaca, N. Y., having petitioned for the extension of a patent granted to him the 19th day of September, 1854, for an improvement in calendar clocks, for seven years from the expiration of said patent, which takes place on the 19th day of September, 1868 it is ordered that the said petition be heard at the Patent Office on Monday the 31st day of August next.

Business and Personal.

The charge for insertion under this head is one dollar a line.

Patent Office Reports.—Persons desiring Patent Office Reports can be accommodated at low prices. Address Samuel C. Jones, Box 773 New York.

Bartlett machine and needle depot, 569 Broadway, New York. Needsies for all machines, hackle, gill pins, etc.

Wanted—to correspond with makers of starch manufacturing machinery. Address B. Hubbe, engineer, 25 Chambers st., New York.

A. B. Broughton's oilers are the best in every respect.

Balloon for sale—25,000 feet capacity—netting and ropes alone worth \$150, all for \$400. Address O. T., care box 517, Dayton, Ohio.

Sail safe—sure prevention against sailboat-capsizings. Patent for sale. Also, samples at \$3. Dr. Oehme, Plymouth, Mass.

Situation wanted as assistant railroad engineer by H. A. Collins, Packer Institute, Brooklyn.

Parties desiring patentable improvements in any machine, manufacture, or process, can engage the assistance of a rare inventive genius by addressing G. L. Wild, Washington, D. C.

Merriman's patent bolt cutters—best in use. Address, for circulars, etc., H. B. Brown & Co., New Haven, Conn.

To iron and steel manufacturers.—A gentleman who has given several years to study of metallurgy, mineralogy, chemistry, geology, etc., as also, one year to the manufacture of iron and steel, would be pleased to become connected with some iron or steel establishment on a fair salary. Address, M., box 5636, New York city.

Wanted—manufacturers of tinsmiths' tools, to address Geo. M. Irwin, box 1455, Pittsburg, Pa.

For Improved Lathe Dogs and Machinists' Clamps, address, for Circular, C. W. Le Count, South Norwalk, Conn.

Brick Machine.—Lafier's New Iron Clad has more advantages than any other ever invented. For descriptive circular address J. A. Lafier & Co., Albion, Orleans county, N. Y.

Wickersham's American oil feeder—the best and will lead. For proof, see advertisement.

Universal filterwell.—Drives and works successfully in every variety of soil. Patented in Dec., 1857, by Oscar C. Fox, Georgetown, D. C.

Rare chance for limited capital.—State or the entire right for sale of the "weighing and measuring cup," and the "combination funnel," six distinct uses. Two of the best patents out. Address Goodes & Co 658 Franklin st., Philadelphia, Pa.

Prang's American chromos for sale at all respectable art stores. Catalogues mailed free by L. Prang & Co., Boston.

For breech-loading shot guns, address C. Parker, Meriden, Ct.

Lubricators, oil cups, and gage cocks.—Broughton's are far superior to any. Address Broughton & Moore, 41 Center st.

NEW PUBLICATIONS.

MECHANICAL MOVEMENTS. Brown, Coombs & Co, 189 Broadway, New York.

H. T. Brown, C. E., a graduate from the office of this paper, has compiled and published in book form five hundred and seven engravings of mechanical movements, with letter press descriptions of each. Price \$1; by mail, \$1.15. See advertisement on back page.

GOTHIC ALBUM FOR CABINETMAKERS.—Henry Carey Baird, 406 Walnut street, Philadelphia. Price \$3.

This work comprises a collection of twenty-three engraved designs for Gothic furniture of the newest and most beautiful patterns.

LESSONS IN ELEMENTARY CHEMISTRY, ORGANIC AND INORGANIC. By Henry E. Roscoe, B.A., F.R.S., Professor of Chemistry in Owens College, Manchester. Wm. Wood & Co., 61 Walker street, New York.

A handy duodecimo volume presenting the principles and most important facts of modern chemistry in a plain but scientific form calculated for elementary instruction. The metric system of weights and measures and the centigrade thermometric scale are used throughout the work.

COACHMAKERS' INTERNATIONAL JOURNAL. I. D. Ware, Editor and Publisher, 413 Chestnut street, Philadelphia.

This is a monthly publication of 24 pages, devoted to the interests of the carriage builder. Every number contains engravings of new styles of coaches, wagon bodies, improved gearing, and a price current for material. Terms \$2 a year; 25c. for single numbers.

THE WORKSHOP. E. Steiger, 17 North William street, New York.

No. 4 of this new magazine, devoted to ornamental designs and the practical arts, is just published. Price 50 cents.

Inventions Patented in England by Americans.

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

PROVISIONAL PROTECTION FOR SIX MONTHS.

- 960.—HAIR AND OTHER COVERINGS FOR THE HEAD, TO OBTAIN VENTILATION AND COMFORT IN WEAR.—George Deas, New York City. March 21, 1868.
- 1363.—PURIFYING, SEASONING, AND PRESERVING WOOD, AND MAKING IT WATER AND FIRE PROOF.—Theodore W. Hinemann, New York city. April 25, 1868.
- 1365.—STEAM GENERATOR AND FURNACE.—S. Lloyd Wiegand, Philadelphia, Pa. April 25, 1868.
- 1370.—TELEGRAPHY, AND CONSTRUCTION AND ARRANGEMENT OF APPARATUS FOR COMMUNICATING SIGNALS AND INTELLIGENCE.—Lancelot H. Everett, M. D., New Orleans, La. April 27, 1868.
- 1373.—BREECH-LOADING FIRE-ARM.—Kiel V. Barnekov, C. E., Newburgh, N. Y. April 27, 1868.
- 1384.—HAIR SEATING, AND MODES OF SEAMING OR JOINING HAIR SEATING AND OTHER WOVEN FABRICS WITH A HAIR FACE.—Charles Bradley, Providence, R. I. April 28, 1868.