

Recent American and Foreign Patents.

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

HORSE COLLAR.—A. Beckwith, New Orleans, La.—The object of this invention is to provide for public use a cheap, substantial, and durable collar for working horses, and which will be easier for the neck than those heretofore employed.

WELL AUGER.—J. Y. Good, Water Valley, Miss.—The object of this invention is to provide certain improvements in well-boring augers, calculated to make them work more easily, and to facilitate the withdrawal of them from the holes, as required from time to time, without incurring the resistance of atmospheric pressure due to the vacuum commonly produced below.

PUMP.—Chas. L. Merrill, Watertown, N. Y.—The object of this invention is to provide for public use a simple and cheap attachment for pumps, for the purpose of forcing fresh atmospheric air to the bottom of the well during the process of pumping, and thereby to cleanse and purify the water.

HAY LOADER.—W. H. Straub, Danville, Pa.—This invention consists in pivoting the rake heads to the endless elevator chain in such manner that, as the former arrive, in succession, at the point where their loads should be deposited in the hay cart, they shall automatically drop on their points like a trap door, and, afterward, be restored again to their former position.

PIANO ACTION.—A. W. Perry, St. Joseph, Mo.—The object of this invention is to so construct and arrange the several parts, composing the action, that, in playing passages where the same note is repeated with great rapidity, the whole passage can be played, so as to bring out the individual notes with the utmost distinctness, delicacy, and perfection of tone, by an exceedingly slight and rapid depression of the key.

POTATO DIGGER.—Wm. Green, Holly, Mich.—This invention relates to a frame mounted upon two wheels, the central part of the frame being bent downward from the axle, and the rear part sustaining the digging and separating apparatus. The invention consists in a series of narrow spades projecting from the front side of the aforesaid apparatus, each spade rising above and being curved over upon one of the conveying bars, by which the vines are carried to the rear.

LIFTING JACK.—W. S. Douglass, Richmond, Va.—This invention consists of a forked vertical standard, having a series of notches in its inclined top, and bands placed over such notches in such manner as to form inclined guideways under the bands, of which guideways the notches form part, and in which guideways the pin that forms the lever fulcrum slides, when the pin is not resting in a pair of the notches, such sliding being for the purpose of stationing the fulcrum at a higher or lower point as may be desired, and the lever being so pivoted as to be self-acting.

TIPPING DEVICE.—J. Keith, Brooklyn, N. Y.—This invention relates to a new and useful improvement in a device for tipping pots and kettles for facilitating the operation of pouring out the contents.

COMBINED HAY RAKE AND TEDDER.—John C. Mills, Palmyra, N. Y.—This invention relates to a new and useful improvement in combining in one (or combining a tedder with a hay rake), and it consists in the construction of the tedder and the arrangement of the same in combination with the rake.

SHAKERS FOR THRASHING MACHINES.—Moses A. Keller, Littlestown, Pa.—This invention has for its object to furnish an improved shaker for separating the grain and straw as they come from the thrasher, which shall be simple in construction and effective in operation.

SOLE-SEWING MACHINES.—Jeremiah Keith, Brooklyn, N. Y.—This invention relates to new and important improvements in that class of sewing machines used for sewing soles in the manufacture of boots and shoes, and consists, mainly, in connecting the horn of the machine with the needle bar so that they may be revolved, or partially revolved, simultaneously, in completing the stitch by mechanism detached from the needle and needle bar, and in forming the stitch or chain on the inside instead of on the outside, as is usually done in this kind of sewing, thereby rendering it unnecessary to cut away the outside of the sole any more than would be done in common hand-sewing.

MODE OF LAYING OUT GARMENTS.—Wm. M. Michael, Indiana, Pa.—This invention comprises a mode of laying out the different parts of a garment by lines and measures from a central point within the said parts, by means of patterns for each part of the garments, and a scale bearing the relations to the different measurements of the person.

REAPER AND MOWER.—A. Shelton and E. Burke, Eton, Ohio.—The object of this invention is to provide certain improvements in the operating gear of reaping and mowing machines, calculated to furnish more useful and efficient machines than those now in use. The invention consists in an improved arrangement of the drawing gear, and clutching and unclutching devices; also, in an improved arrangement of attaching devices for the mower; and, also, in an improved arrangement of side dropping devices for the reaper, and operating devices for the reel.

WATER WHEEL.—A. W. Lloyd, North Adams, Mass.—This invention relates to improvements in water wheels, such as are used with a draft tube, and has for its object to provide certain improvements in the construction of the same. Also, a draft regulating apparatus for keeping the draft tube full of water whether running or not, to compensate for the loss of water in the draft tube, by reason of leaking and accumulation of air therein, set free from the water, which lowers the level of the water therein, and consequently the efficiency of the wheel.

FRUIT CAN.—A. J. McMillen, Ravenswood, West Va.—This invention relates to improvements in cans of tin or other thin sheet metal for putting up fruit; it consists in the application of a strong band or hoop at the center between the ends to prevent the cans from collapsing, and adapted also as a register to designate the name of any fruit which may be put into the can.

TOBACCO MACHINERY.—J. H. Dickason, Hannibal, Mo.—This invention relates to new and useful improvements in machinery for manufacturing tobacco, whereby the labor and expense of preparing plug tobacco for market is greatly lessened.

IRONING MACHINE.—Jules Decoudun, Paris, France.—This invention consists in a fixed, smooth, heated metallic surface, and one or more revolving cylinders, upon which an endless apron of felt is applied with such a tension, that, by engaging the fabric to be operated upon between the fixed metallic surface and the felt, the same is carried around with the latter gliding over the heated surface, whereby it is thoroughly ironed.

SAFETY VALVE.—Walter Dawson, Scranton, Pa.—The object of this invention is to provide a better seat for the valve, and also to secure a more free escape of steam than can be obtained by the ordinary safety valve.

DESIGN FOR CHAMBER PAILS.—John S. Jennings, Brooklyn, N. Y.—This invention relates to an improved design for the form and construction of chamber pails.

MACHINE FOR WASHING AND RINSING WOOL.—Emile Nougaret, Newark, N. J.—This invention has for its object to provide a simple machine for washing and rinsing wool, with the aid of warm or cold water or other liquid. The invention consists chiefly in the arrangement of an annular vessel, in which the wool to be washed is kept in constant motion, by a stream of water falling in an inclined direction upon it, so that the force of the water will serve to move the wool.

SASH LOCK AND FASTENER.—A. F. Gregory and C. H. Ensign, Bridgeport, Conn.—This invention relates to an improved device for retaining window sashes at any suitable height, and for locking the same, when they are lowered.

WASHING MACHINE.—T. H. Tatlow, Jr., Newark, Mo.—This invention relates to a new washing machine in which the rubber is attached to a lever that can be oscillated, both in a vertical and horizontal direction, to obtain the requisite action on the articles to be cleaned.

ALARM FAUCET.—T. M. Bielle, Fort Wayne, Ind.—This invention has for its object to provide means for automatically arresting the flow of liquid matter of a suitable kind, when the receptacle is filled to the requisite height.

COAL AND ASH SIFTER.—Abram Hagadorn, Canajoharie, N. Y.—This invention has for its object to so construct a coal and ash sifter, of that class in which a rotary screen is employed, that such screen can be locked stationary, while the coal and ashes are being filled in.

ELECTRIC SIGNAL FOR RAILROAD CROSSINGS, ETC.—T. S. Hall, Stamford, Conn.—This invention has for its object to provide means by which an electric signal, visible or audible, to be operated by a passing train, can be held displayed for a certain length of time, until the train acts on a different magnet, than that at first set in motion.

SNOW PLOW.—Gottlieb Beer, Grafton, Wis.—This invention relates to a new snow plow, which is to be moved ahead by horses, or other draft animals, and which is provided with a steering point, swinging wings, and with a backward projecting pole.

LUBRICATOR.—David Adamson, New York city.—This invention has for its object to provide a lubricator cup, which can be used on all kinds of machinery, but more particularly on high pressure engines, with any suitable viscous lubricating material. The invention consists in the arrangement of a cylindrical cup which contains a piston, to the upper or outer surface of which steam pressure is, or can be applied.

PROCESS OF DYEING BLACK.—James Gee, West New Brighton, N. Y.—The object of this invention is to simplify and accelerate the dyeing and sizing of all kinds of fabrics in black, and refers more particularly to the dyeing of cotton, or the fabrics made of vegetable fiber.

PEANUT PICKER.—W. A. Crocker, Norfolk, Va.—The invention comprises an arrangement in a closed case, through which the vines are supplied at one end, of an endless chain carrier, composed of chains woven together diagonally, making large angular meshes, working between fixed screens, one above and the other below the upper portion of the chains; also, in combination with the above, a rotary spike vine discharger, a fanning device, and a scouring apparatus.

PAPER FILE.—Benj. F. Herr, Livingston, Ala.—This invention consists in the arrangement of three parallel bars, one of which is provided with hooks and pins for the connection of the other two, and springs for forcing the middle bar against the second outer bar, for clamping the papers placed between them. For disengaging the papers the bars are forced together and the hooks disengaged from the second outer bar and engaged with the middle bar, holding the springs, while the second outer bar is free to be removed.

SPRING FOR HORSE COLLARS.—Benjamin J. Barton and Roswell J. Stanley, Washington, Iowa.—This invention has for its object to furnish an improved spring for horse collars, which shall be so constructed as to strengthen the collar and keep it in position and form, both when on and when off the horse.

CHURNING MACHINE.—D. G. Taylor, Campbellsville, Ky.—This invention has for its object to furnish a simple, convenient, and effective churning machine, which shall be so constructed and arranged as to do its work quickly and well.

HEATING SADRONS.—James Jenkinson, Williamsburgh, N. Y.—This invention has for its object to furnish an improvement in heating sadrons with kerosene lamps, gas burners, etc., by means of which the sadrons may be readily and conveniently heated.

DITCHING MACHINE.—H. L. Hall, Buffalo, N. Y.—This invention has for its object to furnish a simple, convenient, and effective machine for opening ditches, and which shall be so constructed and arranged that it may be used for making crooked ditches.

COTTON SEED PLANTER.—Matthew McMillan, Caney, Ark.—This invention has for its object to furnish a simple, convenient, and effective cotton seed planter, which shall be so constructed and arranged, as to plant the seed in a narrow channel making it much more convenient for scraping, chopping, and, in fact, for the entire process of cultivation.

GATE AND DOOR LATCH.—Rudolph Geselbracht and Frederick Frey, Galena, Ill.—This invention has for its object to furnish a simple, strong, convenient, and effective latch for gates.

TRACE LOCK FOR WHIFFLETREES.—Samuel P. Williams, Rutland, Vt.—This invention has for its object to furnish an improved lock, by means of which the trace or tug may be effectually guarded against becoming accidentally detached, and which shall, at the same time, be simple in construction and easily applied and operated.

VENTILATOR.—William F. Thoms, M. D., New York city.—This invention has for its object to furnish a simple, convenient, and effective apparatus for ventilating dwellings, offices, churches, halls, and other buildings, and which shall be so constructed and arranged that it may be so adjusted as to introduce into the room warm air in winter and cool air in summer.

MOLE KILLER.—Joseph Wilson, Little Falls, N. J.—This invention has for its object to furnish a simple, convenient, and effective device for destroying moles, which shall be so constructed that it can be set without obstructing the track of the mole and thus alarming him.

BURGLAR-PROOF SAFE.—William McFarland, Williamsburgh, N. Y.—This invention has for its object to improve the construction of an improved safe, patented September 14, 1863, and numbered 94,761, so as to make it more convenient in construction and use, while being equally strong and safe against the attacks of burglars.

MACHINE FOR ROLLING, PRESSING, AND CUTTING TOBACCO, ETC.—G. Robinson, Louisville, Ky.—The object of this invention is to provide a simple and efficient machine for rolling and pressing tobacco leaves and cutting them into plugs or cakes. It consists of a system of tongued and grooved pressing rollers and cutting rollers, together with feeding and delivering apparatus.

TOBACCO ELEVATOR.—G. Robinson, Louisville, Ky.—This invention relates to elevating apparatus for elevating or lowering tobacco in warehouses, whereby it is designed to provide a simple and convenient apparatus, adapted to carrying the tobacco up or down while suspended in bunches or hands on the racking sticks.

BOOK HOLDER.—Hamilton Sherman, Waverly, Pa.—This invention consists of a table hinged to a stand for adjustment to the required angular position in front of the reaver, and provided with means for holding it as required; also, with a spring clamp of peculiar construction.

GARREN PLOW AND MARKER.—Henry Haynsworth, Sumter, S. C.—This invention relates to improvements in hand garren plows for making and marking furrows or drills for planting, and for plowing between rows of plants for cultivating. It consists of a curved and fork beam, answering for beam and handles; a wheel at the front end of the frame supporting it; a plow or scraper behind the wheel, and a marker supporting arm hinged to the beam, so as to project laterally therefrom, and to be turned to either side for marking the next row by a marking rod supported at a suitable distance from the frame.

TOOL HOLDER FOR GRINDSTONES.—Philip Leonard, Sharon, Pa.—This invention relates to improvements in tool-holding attachments for grindstones, and consists of a plate, arranged for oscillation in front of the face of the grindstone, and a carriage mounted thereon, to slide back and forth, and carrying an adjustable tool holder mounted on the said carriage, and capable of feeding towards or from the stone, the whole being arranged to hold the tool in contact with the stone, and to move it back and forth across the face in a way to grind the edges truly and at any required level.

SWIVEL COCK EYE FOR HARNESS.—Thomas J. Magruder, Marion, Ohio.—This invention relates to improvements in the construction of swivel cock eyes for harness, and consists in constructing the neck of the eye between the two ends, of a regular concave form, and uniting the cross bar of the frame, to which the tug is connected by casting it around the said neck, previously arranged so as not to project beyond the inside of the cross bar, so formed by casting around the said neck in the mold, whereby the abrupt shoulders commonly formed at each end of the straight necks, which are objectionable because of the weakness of the necks at the junction with the said enlargements, and because of the protruding ends inside of the frames, are avoided, the objection to the protruding ends is that they come into contact with the parts of the tugs looping around the bars to which they are attached and bear them.

APPLICATIONS FOR EXTENSION OF PATENTS.

MACHINE FOR FOLDING PAPERS, ETC.—John Thompson, New York city, executor of Thomas Thompson, late of Brooklyn, N. Y., deceased, has applied for an extension of the above patent. Day of hearing Feb. 9, 1870.

CULTIVATING PLOW.—William E. Wyche, Brookville, N. C., has petitioned for the extension of the above patent. Day of hearing, Feb. 9, 1870.

METHOD OF BOTTLING FLUID UNDER GASEOUS PRESSURE.—Jane Quantin and Henry A. Pintard, Philadelphia, Pa., executors of Alphonse Quantin, deceased, have applied for an extension of the above patent. Day of hearing, Feb. 16, 1870.

HARVESTER RAKE.—Owen Dorsey, of Newark, Ohio, has petitioned for an extension of the above patent. Day of hearing Feb. 16, 1870.

METHOD OF BENDING WOOD.—John C. Morris, Cincinnati, Ohio, has applied for an extension of the above patent. Day of hearing Feb. 23, 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 Office 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.

Inventions 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.

Advertisements.

The value of the SCIENTIFIC AMERICAN as an advertising medium cannot be over-estimated. Its circulation is ten times greater than that of any similar journal now published. It goes into all the States and Territories, and is read in all the principal libraries and reading-rooms of the world. We invite the attention of those who wish to make their business known to the annexed rates. A business man wants something more than to see his advertisement in a printed newspaper. He wants circulation. If its worth 25 cents per line to advertise in a paper of three thousand circulation, it is worth \$250 per line to advertise in one of thirty thousand.

RATES OF ADVERTISING. Back Page.....\$1.00 a line. Inside Page.....75 cents a line. Engravings may head advertisements at the same rate per line, by measurement, as the letter-press.

SILICATE OF SODA, IN ITS VARIOUS forms, manufactured as a specialty, by Philadelphia Quartz Co., 783 South 2d st., Philadelphia, Pa.

AN Experienced Civil and Mechanical Engineer is open for engagement as Manager. Would accept Contract Work. Address "Engineer," care of Philip S. Justice, Philadelphia, Pa.

WE WILL SELL THE PATENT RIGHT (No. 81,331) of Col. Van der Weide's Submarine Lamp on reasonable terms. C. M. CLAY & CO., No. 45 Liberty st., New York. Box 4950.

COLLEGIATE & Commercial Institute (Gen. Russell's School), New Haven, Conn. Winter term begins Jan. 11

\$290 For First-class new 7-Octave Pianos. Sent on trial. U. S. PIANO CO., New York.

FOR SALE LOW—A No. 6 Taft's Pat. Power Shears. In use but a few days. H. MCMLIRNIE & CO., 80 Milk st., Boston, Mass.

EVERY MECHANIC WANTS ONE OF my Patent Pencil Attachments for Compasses; it fits any size. Price 50 cents. Sent free by mail to any address. Agents wanted. Trade supplied. Address C. L. TYLER, Ithaca, N. Y.

Erysipelas, Salt Rheum, Piles, and all diseases of the Blood and Skin cured by using the SHELDON SPRING WATER. Book of thirty pages, with certificates, sent free. Address J. W. BEALS, Treasurer, Boston, Mass.

EVERY READER of this paper would do well to send 50c. to "Horseshoe" Messenger, London Ridge, N. H., for a volume of the Best Literary, Humorous, and Progressive paper, at the price, published. Six months, on trial, for 25c. It pleases everybody.

ENGINEER WANTED, immediately—One educated to his profession, and has had five or more years' practical experience in designing and erecting high-pressure steam engines of 10 to 20-horse power, with slide valve and variable cut-off, etc.; he must have filled such a position with credit, and give evidence of being a growing man, of good moral character, and can earn a salary of \$2,500 or more per year. Each letter will receive prompt replies for interviews, etc.; incur no expense until a visit. Address JOHN COOPER & CO., Mt. Vernon Ohio.

VINEGAR.—How Made from Cider, Wine, Molasses, or Sorghum in 10 hours, without using drugs. For circulars, address F. I. SAGE, Vinegar Maker, Cromwell Conn.

BLOOD ALBUMEN. FOR SALE—The Patent for the Manufacture of Light-Colored Albumen from Blood, by the Patentee, or Partner was sold with \$5000 for its manufacture. Address JOS. M. HIRSH, 10 & 12 Wells st., Chicago, Ill.

PULMONARY AND UTERINE INHALATOR.—The undersigned has permanently located in New Orleans, and is now prepared to furnish his instruments to Ladies and Gentlemen, who suffer with Diseases of the Chest and "Womb," or Uterine Diseases. Instruments and prescriptions on reasonable terms. See Scientific American June 26, 1869. G. H. TICHENOR.

"YOU CAN DO NO BETTER" SO SAYS THE "MEXICO BEACON" OF THE New York Observer, \$3 50 PER ANNUM. SAMPLE COPIES FREE. SIDNEY E. MORSE, JR., & CO., 37 PARK ROW, NEW YORK.

NATIONAL EXHIBITION AT CORDOVA, ARGENTINE REPUBLIC. All parties desiring information in regard to this Exhibition will please apply to either of the following: His Excellency Manuel E. Garcia, Argentine Minister, Washington; Edward F. Davison, Argentine Consul General, New York; Belisario Roldan, Special Agent of the Central Committee, at the Consul General's office, New York, or to the Argentine Consuls at Savannah, Baltimore, Philadelphia, Boston, or Portland.

STEAM AND WATER GAGES, STEAM Whistles, Gage Cocks, and Engineers' Supplies. 16 tf JOHN ASHCROFT, 50 John St., New York.

A Wonderful Sensation!—"The Paradise," and a beautiful present besides, sent free, well sealed. Address F. A. ELLS & CO., Charlotte, Mich.

H. BOARDMAN, Lancaster, Pa.—Superior Patent Cord-cutting Machinery, Hard-Irid Twine Cord, and Rope Machinery, with Pat. Stop & Condenser

IRON STEAMERS, HULLS, & LIGHTERS. Estimates & Specifications furnished on application. HENRY J. DAVISON, 71 Liberty st., New York, Agent for Pusey, Jones & Co. 21 tf

HAIR, WOOL, AND COTTON DUCK FELT, for sale by the Square Foot or boilers covered by Contract. RUSSIAN FELT of every description, a SPECIALTY, by HENRY J. DAVISON, 71 Liberty st., N. Y.

WAGON AXLES, COMMON, CONCORD, IRON HUB, and SOLID COLLAR, of superior quality & finish. Also, Manufacturers of Machinery, Pat. Steam and Belt Forge Hammers, Power Saws, &c. Axes, Wheelbarrow Necks, Truss Spades, Crowbars, Pickers, Axes, and Iron Jack Screws, Patent Swage Blocks, Tire Benches, Forgings & Castings. Address, for Price List, LYMAN KINSLEY & CO., Cambridgeport, Mass.

Pevey's Cupola, WARRANTED to Melt, with one tun of Coal, 3000 lbs. of Iron more than any other Cupola now in use. Proprietor, Lowell, Mass. Van Tassel & Co. No. 373 Cherry st., New York, Agents.