

Facts for the Ladies.

I have used one of Wheeler & Wilson's Sewing Machines (No. 2,762) nearly fourteen years, making cloaks for the last eleven years, and doing all other kinds of sewing down to book muslin. It is now in perfect order, has never had any repairs, and I have not broken a needle since I can remember. I appreciate my machine more and more every day, and would not exchange it for any machine that I know. M. BUDLONG. Utica, N. Y.

Recent American and Foreign Patents.

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

HORSE HAY RAKE.—James M. Colson, Morrill, Me.—This invention has for its object to furnish an improved horse hay rake which shall be simple in construction, easily operated, strong, durable, not liable to get out of order, and effective in operation.

GRASS-SEED SEPARATOR.—D. B. Dixon, Unionville, Mo.—This invention has for its object to furnish an improved device for separating and preserving the seed of timothy or Hungarian grass, when being fed to horses or other stock.

RAILROAD CAR WHEELS AND AXLES.—Frederick Sturtevant, Saint Paul, Minn.—This invention has for its object to improve the construction of railroad wheels and axles so as to almost entirely overcome the friction between the wheels and the rails when the cars are passing around a curve in the track.

PLOWS.—Robert Dickie and Hugh K. Johnston, Bunker Hill, Ill.—This invention relates to improvements in plows, and consists in attaching the beam to the plow in a novel manner, for adjusting it horizontally, for varying the breadth of the furrow, and vertically, for varying the depth.

FERRULE FOR PAINT BRUSHES.—Wm. B. Burnett, New York city.—This invention relates to improvements in the metal ferrules used for confining the but ends of the bristles and the handles together, and it consists in an improved ferrule, made of sheet metal, by stamping up in dies.

COMBINED SHAFTS AND POLE.—John G. Burchfield and S. W. Brock, Niantic, Ill.—This invention relates to improvements in buggies and other light wagons, and consists in an arrangement of shafts so that they may be used as a pole, also, by slightly shifting them, thereby saving the expense of a separate pole and the labor of detaching one and attaching the other.

MEDICAL COMPOUND.—Lewis L. Gebhart, M.D., New Providence, Ind.—This invention has for its object to furnish what has been long sought for, viz: an agent that would not only be beneficial in its local action, when applied to the surface of the body, but, at the same time would be taken up by the general circulation, both of the blood vessels and the nerves.

PAINT BRUSHES.—Wm. B. Burnett, New York city.—This invention relates to improvements in attaching the bristles and handles together, and consists in securing a handle having a disk on the end, of the size of the upper end of the ferrule, which is larger than the end receiving the bristles, by means of a screw or pin, passing through a conical plug, driven in at the center of the bristles in the same way the handles are in the common construction of brushes, the said disks being also glued or cemented to the ferrules and the ends of the bristles.

TUBING CLAMP.—Wm. H. Downing, Pioneer, Pa.—This invention relates to improvements in tubing clamps or clutches, used for attaching the hoisting chains to oil-well tubing, for hoisting it out of the wells, and consists in the application to a circular hub on the top of a bifurcated block, adapted to receive the tube below the enlarged coupling joint, and for attachment to the hoisting chain of a ring, with an opening, arranged to be set to coincide with the bifurcation, for the reception of the tube, and for turning of the ends to confine the tube therein.

COMBINATION SCRUB BRUSH.—E. K. Wood, De Witt, Iowa.—This invention relates to a new and useful improvement in a scrub brush, with which is combined a water can and rubber dryer or wiper, to the head of which, the brush, water can, and dryer are attached.

SEED PLANTER.—Levi Smith, Chester Center, Mass.—This invention relates to important improvements in machines for planting seeds, more especially designed for planting corn, but applicable to other kind of seeds.

HAND CORN PLANTER.—Hugh Dyer, Fort Scott, Kansas.—This invention has for its object to furnish an improved hand corn planter, simple in construction, and effective, reliable, and uniform in its operation.

MACHINE FOR MAKING TILES, AND ALSO MOLDS FOR THE SAME.—Joseph Christen, New Orleans, La.—This invention relates to a new and useful improvement in a machine for forming tiles for roofs and floors, and for ornamental work for building and other purposes, from clay, cement, or plaster of Paris.

SCALES.—George W. Dickinson, Charleston, Ill.—This invention has for its object to furnish a simple, convenient, accurate, and reliable scale, for weighing light or heavy articles.

ROTARY PUMP.—George W. Heald and L. D. Sisco, Baldwinville, N. Y.—This invention relates to a new and useful improvement in rotary pumps, whereby they are made more useful and more durable than they have hitherto been, and consists mainly in connecting a lifting or suction pump thereto, for priming or filling the same.

COTTON PICKERS.—D. M. McRae, Webberville, Texas.—This invention relates to improvements in machinery for picking cotton from the plants, and consists in a set of saws mounted on a truck, and geared with the driving wheels, to run in the tops of the plants (the lateral parts of which are brought within the range of the saws by gatherers in front) and detach the cotton, and convey it to a brushing roller above, which detaches the cotton from the saws, and delivers it into a receptacle behind.

INDELIBLE WRITING FLUID.—Charles Hebel, Louisville, Ky.—This invention relates to a new and useful improvement in an indelible writing fluid, or ink, designed more especially for use in banks, and for filling up notes, checks, bonds, etc.

SHEET METAL CANS.—Franz Albaum, Greenpoint, N. Y.—This invention relates to a new manner of securing the tops and bottoms in sheet metal cans, with the object of supporting the same firmly, and permitting their rapid application.

COOKING STOVE.—John M. Goodfellow, Troy, N. Y.—This invention consists in providing, in the upper part of the fire-box of a cooking stove, a bridge extending lengthwise of the box, which bridge forms the front side of an air chamber lying horizontally over the oven, and is perforated with a number of holes made for the purpose of letting out jets of heated air from the said chamber directly upon the smoke and gases rising from the fire-box, so that the same may be more thoroughly consumed; the fire-box being also provided with perforated doors so as to let in air in jets for a similar purpose. The invention also consists in the attachment to the stove of a hot water-tank combined with heating chambers; also in providing flue strips for conducting air into the central parts of air chamber over the oven.

COMBINED GANG PLOW AND CULTIVATOR.—Sterling C. Thornton, Macomb, Texas.—This invention consists of sundry improvements in a machine that may serve the purpose either of a gang plow, or, the position of two of the plows having been changed, of a cultivator, said improvements tending to reduce resistance and strain, experienced by the draft animals in drawing the plows through the earth, to their minimum, and to increase the general efficiency of the apparatus.

TIME LOCK.—Lewis A. Haines, Wakefield, Md.—This invention consists in the combination of a lock with a clockwork in such a manner that the lock-bolt may be withdrawn from the keeper at any hour to which the clock-work may be set and not a moment sooner, the lock mechanism being also constructed with peculiar safeguards against burglary.

METALLIC SEAL.—Alexander B. Small, New Orleans, La.—This invention is an improvement on "Mears and Houlton's" Seal for Railroad Freight Cars, etc., patented July 14, 1867, and consisting of a soft metal disk, and a wire that is first passed through staples attached to the door and door-frame of the car, after which, either the ends of the wire are bent, and then inserted in holes extending partly through the soft metal disk, or the branches of the wire are passed entirely through the disk, after which, in either case, the disk is struck with a proper die and compressed upon the wires with force enough to hold them firmly.

BUCKET FOR THE PROPELLING WHEELS OF VESSELS.—A. C. Loud, San Francisco, Cal.—There are certain well-known obstacles which prevent the perfect working of the paddle-wheels and screws, as commonly constructed, of steam vessels. One of these is the lifting of water by the buckets or blades as they emerge, the fluid thus lifted not only retarding the wheel, but also hanging as a dead weight on the vessel and making friction as it is dragged over the surface of the body of water in which the vessel is sailing. Moreover, the striking of the ordinary paddles against the water produces jars, which extend over, and injure the ship, besides annoying the passengers. These obstacles it is the object of this invention to overcome. To this end the invention consists in buckets or blades constructed of parallel bars, with spaces between them, or of perforated plates, or of bars formed into lattice-work, or in any other manner in which a bucket or blade may be produced which shall present a series of openings through which water may pass, alternating with a series of surfaces against which water may react.

GAGE FOR CUTTING BIAS PIECES.—Samuel T. Taylor, New York city.—This invention consists in the combination of a straight wand with sliding cross-pieces placed at right angles to the wand, in sockets at the ends of the same, and with a cord which connects those extremities of the cross-pieces that are on the same side of the wand, by which arrangement the cord may be set at any desired angle with the wand, on moving the cross-pieces to the requisite extent.

HAY RAKER AND LEADER.—Gilbert G. Park, Xenia, Nebraska.—This invention has for its object to provide an apparatus for raking and loading hay in such manner that the hay will not be disturbed while on the said apparatus by wind or other obstacles.

GIN FOR LINTING COTTON.—George W. Payne, Memphis, Tenn.—This invention relates to a new arrangement of machinery for removing the short lint from cotton seed that has already been ginned, and also for ginning cotton seed as it comes from the field.

COUPLING FOR HEATING CARS BY STEAM.—Samuel A. Appold, Baltimore, Md.—This invention has for its object to connect the steam heating system of pipes of one car with the steam heating system of pipes of another car, by a universally-jointed and expandible coupling placed beneath the bumpers, and so constructed that it may accommodate itself to the curves and irregularities of railways, and to the inequalities in speed which produce variations in the intervals between the cars of a moving train.

BOAT-DETACHING TACKLE BLOCK.—N. M. Ray, Surrey, Maine.—This invention relates to a new and useful improvement in the mode of detaching boats from vessels, and consists in a tackle block provided with a pivot hook and tripping device, by means of which the ends of a boat may be simultaneously detached from the davits by people on board the vessel.

SHOW CASE.—J. A. Holmes, Shopiere, Wis.—This invention relates to improvements in show cases, and consists in the application to them, whether made round, octagonal, or of other form, and revolving or not, of reflecting mirrors arranged in angles of ninety degrees or less for repeating the reflections of the articles to be exhibited which are placed between the reflecting mirrors.

ADJUSTABLE RAILROAD CAR SEATS.—J. I. Pease, Stockbridge, Mass.—This invention has for its object to furnish an improved seat for railroad cars which shall be so constructed that its back and head and foot rests may be swung or inclined into such a position that the passenger may recline or sleep comfortably upon it.

HARNESS MOTION FOR LOOMS.—A. R. Field, Central Falls, R. I.—This invention relates to improvements in harness motion for looms, and consists in a novel arrangement of differential gears for turning two sets of tappet shafts on their own axes while being carried around the shafts of drums on which they are mounted, between which drums the looms are mounted.

HAY AND COTTON PRESS.—Grey Utley, Charlotte, N. C.—This invention has for its object to improve the construction of the improved hay and cotton press patented by the same inventor May 12, 1865, and numbered 77,852, so as to make it more convenient and satisfactory in use, and more effective in operation.

COMBINED HARROW AND ROLLER.—J. M. Blankenbaker, Powers' Station, Ind.—This invention has for its object to furnish an improved harrow which shall be so constructed that the ground may be harrowed and rolled or harrowed, rolled, and cultivated, as may be desired, and which shall, at the same time, be simple in construction, and easily adjusted and operated.

REED ORGAN PIPES.—C. W. Small, Worcester, Mass.—This invention relates to improvements in the construction and arrangement of the pipes used in melodeons, organs, and the like instruments for the purpose of softening the sound and increasing the volume, and it consists of a pipe made of wood or other suitable material, having the reed placed at one side, near one end, and terminating at the other end in a hollow spherical enlargement, with a mouth in one side to emit the sound.

TRACTION ENGINE.—M. P. Hall, Hinsdale, N. Y.—This invention has for its object to furnish a simple and convenient engine to take the place of animal power for various farm purposes, for towing canal boats, and other uses, where the continuous, untrifling exertion of power is required, and which will apply the power in the most natural and direct manner.

CHUCKS FOR CUTTING SCREWS ON GAS PIPES OR TUBES.—W. T. Cole, New York city.—This invention relates to a new and useful improvement in chucks for holding gas pipe and other tubing while screw threads are being cut thereon, and for other purposes, the mechanism being such that the pipe or article is released as soon as the thread is cut without stopping the machine or lathe, and also such that the driving power is used for fastening the pipe.

Inventions Patented in England by Americans.

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

PROVISIONAL PROTECTION FOR SIX MONTHS.

- 2,082.—PRODUCTION OF IRON AND STEEL.—J. E. Sherman, Bucksport, Me. July 25, 1870.
2,084.—WASHING MACHINE.—H. Greaves, Newark, N. J. July 25, 1870.
2,180.—VEGETABLE PARCHMENT OR PARCHMENT PAPER.—C. Campbell, Buffalo, N. Y. July 26, 1870.
2,102.—MANUFACTURE OF RAILWAY WHEELS ALSO IN THE MOLDS AND THE CONVERTING FURNACES TO BE USED IN THE MANUFACTURE OF RAILWAY WHEELS.—J. S. Tarr, Fairhaven, N. Y. July 26, 1870.
2,112.—HEATING WATER FOR STEAM BOILERS.—C. E. Hutson, Commerce, Mo. July 27, 1870.
2,115.—INKING APPARATUS FOR PRINTING PRESSES.—I. L. G. Rice, Cambridge, Mass. July 28, 1870.
2,124.—DEVICE FOR GUIDING COVERED WIRE TO BE SEQUED UPON A FABRIC OR SUBSTANCE IN A SEWING MACHINE.—W. T. Cook, New York city. July 28, 1870.
2,153.—LUBRICATING PACKING FOR RAILWAY CARRIAGE JOURNALS.—W. H. Jewell, New York city. Aug. 2, 1870.
2,155.—PRESERVING WOOD FROM DECAY.—A. B. Tripler, New Orleans, La. August 2, 1870.

Caveats are desirable if an inventor is not fully prepared to apply for a patent. A caveat affords protection for one year against the issue of a patent to another for the same invention. 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 the application. Send sketch and description by mail, inclosing fee of \$5. Address MUNN & CO. 37 Park Row New York.

Official List of Patents.

Issued by the United States Patent Office.

FOR THE WEEK ENDING August 23, 1870.

Reported Officially for the Scientific American

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- 106,531.—KNITTING MACHINE.—W. H. Abel, Newington Vt., assignor to himself and J. E. Crane, Lowell, Mass.
106,532.—COAL SIFTER.—Sanford Adams, Boston, Mass.
106,533.—SHEET METAL CAN.—Franz Albaum, Greenpoint N. Y.
106,534.—MACHINE FOR RULING SLATES.—Franklin Ames, North Bridgewater, Mass.
106,535.—HARVESTER.—V. S. Barber (assignor to Nixon & Co.), Alliance, Ohio.
106,536.—MACHINE FOR SAND-PAPERING MOLDINGS.—Joseph Barker (assignor to himself and Philip Myers), Chicago, Ill.
106,537.—MOTIVE POWER.—Charles Batcheller, Polk county Iowa.
106,538.—PRUNING SHEARS.—George Bergner, Washington Mo.
106,539.—COMBINED HARROW AND ROLLER.—J. M. Blankenbaker, Powers' Station, Ind.
106,540.—METHOD OF PUTTING FACE-DRESS ON MILLSTONES.—J. S. Braley, J. A. Schmitt, and P. L. Schmitt, Utica, Mo.
106,541.—SCYTHE.—H. C. Brown, Barkhamsted, Conn.
106,542.—COMBINATION OF SHAFTS AND POLE.—J. G. Burchfield and S. W. Brock, Niantic, Ill., assignors to S. W. Brock.
106,543.—LET-OFF MECHANISM FOR LOOMS.—M. C. Burleigh, Somersworth, N. H.
106,544.—PAINT BRUSH.—W. B. Burnett, New York city.
106,545.—FERRULE FOR PAINT BRUSHES.—W. B. Burnett, New York city.
106,546.—SEEDING MACHINE.—Alphonso Button, Dunkirk, N. Y.
106,547.—DEVICE FOR PROPELLING CANAL-BOATS.—J. B. Calnan, New Haven, Conn., assignor to himself and V. P. Parkhurst, New Bedford, Mass.
106,548.—WHEEL PLOW.—H. C. Carr, Bordentown, N. J.
106,549.—HITCH HOOK.—G. W. Chandler (assignor to himself and Calvin Searle), Mason, N. H.
106,550.—TILE MACHINE.—Joseph Christen, New Orleans La.
106,551.—CHUCK FOR HOLDING PIPES AND TUBES WHILE BEING SCREW-THREADED.—W. T. Cole, New York city.
106,552.—DISH STAND.—W. F. Collier, Worcester, Mass.
106,553.—ROASTING FURNACES FOR ORES.—John Collom Empire City, Colorado Territory. Antedated August 15, 1870.
106,554.—HORSE HAY RAKE.—J. M. Colson, Morrill, Maine.
106,555.—AUTOMATIC BUGGY BRAKE.—L. T. Conant, New Lisbon, Ohio.
106,556.—PLOW.—W. G. Coombs, New Gloucester, Maine.
106,557.—BOTTLE STOPPER.—J. T. Cree, Worcester, Mass.
106,558.—VENTILATING WINDOW FOR RAILROAD CARS.—Samuel Darling, Providence, R. I.
106,559.—PLOW.—Robert Dickie and H. K. Johnston, Bunker Hill, Ill.
106,560.—WEIGHING SCALES.—G. W. Dickinson, Charleston, Ill.
106,561.—MACHINE FOR MANUFACTURING WATCH CASES.—T. B. Dill, Boston, Mass.
106,562.—GRASS-SEED SEPARATOR FOR MANGERS.—D. B. Dixon, Unionville, Mo.
106,563.—TUBING CLAMP.—W. H. Downing, Pioneer, Pa.
106,564.—EARTH CLOSET.—J. A. Drake (assignor to himself and M. E. B. Clark), New Orleans, La.
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106,566.—EARTH CLOSET.—J. A. Drake (assignor to himself and M. E. B. Clark), New Orleans, La.
106,567.—SPINDLE BOLSTER.—W. F. Draper, Hopedale, Mass.
106,568.—HAND CORN PLANTER.—Hugh Dyer, Fort Scott, Kansas.
106,569.—MANUFACTURE OF INFLAMMABLE GASES FOR FUEL, ETC.—William Elmer, New York city. Antedated August 12, 1870.
106,570.—TRUSS.—T. M. Fell, Glastonbury, Conn.
106,571.—HARNESS-OPERATING MECHANISM FOR LOOMS.—A. R. Field, Central Falls, R. I.
106,572.—COFFEE-POT.—William Funk and G. W. Port, Warrensburg, Mo.
106,573.—MEDICAL COMPOUND.—L. L. Gebhart, Providence Ind.
106,574.—VAPOR BURNER.—Ernest Gillert, St. Louis, Mo.
106,575.—CHURN DASHER.—W. H. H. Gorham and B. H. Williams, Greenwich, Ohio.
106,576.—WASHING MACHINE.—Allen Gregg (assignor to himself and Perry Gregg), Springborough, Ohio.
106,577.—TRACTION ENGINE.—M. P. Hall, Hinsdale, N. Y.
106,578.—HEAD BLOCK FOR SAW MILLS.—J. W. Handshy, Tanesville, Ohio.
106,579.—WHEEL CULTIVATOR.—E. D. Hatch, Oconomowoc Wis.
106,580.—GUARD FOR ROOFS.—S. R. Hathorn, Worcester Mass.
106,581.—ROTARY PUMP.—G. W. Heald and L. D. Sisco Baldwinville, N. Y.
106,582.—INK OR WRITING FLUID.—Charles Hebel, Louisville, Ky.
106,583.—POTATO DIGGER.—Leonard Henderson, Manson, N. C.
106,584.—DRESSING AND TANNING SKINS.—H. A. Hibbard, Augusta, Mich. Antedated August 11, 1870.
106,585.—COATING METAL ARTICLES WITH INDIA-RUBBER.—Constantine Hingher, New Brunswick, N. J.
106,586.—SHOW CASE.—J. A. Holmes, Shopiere, Wis.
106,587.—ATOMIZING TUBE.—T. J. Holmes, Malden, Mass.
106,588.—LIQUID MEASURE AND FUNNEL.—Joseph Huff, Ironton, Mo.
106,589.—MACHINE FOR REPAIRING BOILER FLUES.—John Hughes, Bloomington, Ill.
106,590.—FURNITURE FASTENING.—L. A. Johnson, Candor N. Y.
106,591.—LAST.—Nathaniel Jones, Syracuse, N. Y.
106,592.—SCREW CUTTING MACHINE.—Edward Kaylor, Pittsburgh, Pa.
106,593.—EARTH CLOSET.—Christian Kieffer and J. R. D. Seeks, Wilmington, Del.
106,594.—GRAIN DRILL.—S. L. King and Wm. Ogden, Owego N. Y.
106,595.—STAY FOR CARRIAGE.—George G. Larkin, Portland, Me.
106,596.—PEN HOLDER.—Robert B. Lawrence, Wheeling, W. Va.
106,597.—SIEVE.—R. J. Mann, Dallas City, Ill.