



[Reported Officially for the Scientific American.]

LIST OF PATENT CLAIMS

Issued from the United States Patent Office FOR THE WEEK ENDING MARCH 18 1856.

WELDING SPOOL—Homer Anderson, of Garrattsville, N. Y. : I am aware that various alkaline substances, both simple and compound, have been used as fluxes and soldering solutions.

BENCH PLANE—Lewis C. Ashley, of Troy, N. Y. : I do not broadly claim combining a metallic throat piece with a bench plane, in such a manner that the discharging aperture for the shavings shall not be enlarged or rendered imperfect by the wearing away of the plane stock.

HERNIAL TRUSSES—John Broiles, of Madison Co., Ala. : I claim the peculiar adaptation of the steel ribbon to the body of the patient by making its lower edge flared out, the block or circle, and flared out on its upper edge for about two inches, the strap and slightly curved upward and the block end curved downwards and outwards on its upper edge, in combination with a pear-shaped pad having a slice taken off, commencing at the outer edge of the base and continued to about two-thirds its length towards the seam, thus forming a broad plane surface to be applied to the body of the patient.

COOKING BY GAS—James B. Blake, of Worcester, Mass. : I claim the described roaster and boiler, constructed and operating in the manner substantially as set forth.

DUMB JOCKEY—Samuel Blackwell, of Oxford Street, London. Patented in England March 9, 1853. I claim making the cross and saddle-tree of gutta percha, and thus a new article of manufacture, one possessing advantages, as specified.

HERMETICALLY SEALING PRESERVE CANS—Charles Branwhite, of New York City : I claim confining the top of the can, E, between bearing surfaces by means of the collar, A, and screw, B, as described, thereby dispensing with solder or cement in forming a joint.

GRAIN AND GRASS HARVESTERS—Thomas D. Burrall, of Geneva, N. Y. : I am well aware that single gearing has been used in a variety of forms, therefore I do not claim any such arrangement in itself, but I am not aware that any arrangement of single gearing has ever before been constructed in the manner described and shown, wherein by the use of a shaft with a bent arm on the end the line shaft, I, can be carried close to the main driving wheel, and the pinion, 1, be so far removed from the fixed journal, 5, that the same can be thrown in or out of gear with ease, and at the same time a small pinion and fast motion can be used, which could not be accomplished without the use of the bent arm to the shaft, 1, in the manner set forth.

CARRIAGE COUPLING—Thomas Chope, of Detroit, Mich. : I claim attaching the perpendicular axle to the front axle in a manner which will enable it to turn or rock, by means of a slotted T-shaped bar which is attached to the front axle by means of clips, G, and the sides, O and A, both working in the slots at right angles, as shown, substantially as described.

THRASHING MACHINE—Hiram Clark, of Princeton, Mass. : I do not claim the precise form of any of the parts nor the use of feed rolls and aprons in thrashing machines, as I am aware such have been used.

MOWING MACHINES—Samuel Comfort, Jr., of Morrisville, Pa. : I am aware that endless chains of knives have been heretofore used in connection with mowing machines, arranged, however, to traverse horizontally and confined to the cutter bar, which involves the necessity of having the latter of inconvenient width. By my arrangement the cutter bar is advantageously narrow and by a simple and light system of gearing I am enabled to operate the chain at a most effective speed.

CORKING BOTTLES—Henry N. Degraw, of Piermont, N. Y. : I do not claim any particular form of the cork holder, B, for other devices may be employed for the same purpose and operated in the same manner.

FIREPLACES—Calvin Dodge, of Pittsburgh, Pa. : I do not claim the contracting the throat or vent of the chimney, as that is well known as a device.

SEWING MACHINES—John German and C. B. Hoyt, of Oriskany Falls, N. Y. : We do not claim the reciprocating slide, D, nor operating said slide by an elbow lever and pins attached to the wheels, B.

INKSTAND—R. Gleason, of Dorchester, Mass. : I claim the use of the hollow elastic body operating in the manner set forth, in combination with the peculiar valve employed for the purpose of retaining the ink within the cup, as set forth.

HARVESTERS—Eliakim B. Forbush, of Buffalo, N. Y. : First, I claim the adjustable shoe, E, for the purpose of leveling the platform, constructed and arranged substantially as described.

STEAM BOILERS—Jacob Frick, of Philadelphia, Pa. : I do not claim the combining of a check valve and stopcock in one instrument, the same being in common use.

NUT MACHINE—Robert Griffiths, of Allegheny City, Pa. : I claim the use of the compressors, M, punchers, P, saws, h, cams, n and g, levers, o and e, cranked and traveling head, i, constructed, arranged, and operating as described, for the purpose of making nuts from heated bars, as set forth.

HARVESTERS' CUTTERS—Horace L. Hervey, of Quincy Ill. : I claim furnishing the cutter bar with a series of inclined blades or knives, in combination with the inclined blocks and roller, d, or their equivalents, for giving to said cutters or cutter bar an oblique cut.

MORTISING TOOL—A. C. Hitchcock and C. H. Amidon, of Greenfield, Mass. : We are aware that tools similarly constructed have been previously used for the same purpose, screw auger bits have been employed and the tools consequently operated imperfectly, as the hollow chisels would soon become clogged with chips, the auger bits cutting off large chips. By our improvement this difficulty is obviated.

ROTARY PLANING KNIVES—Daniel L. Hurlbut, of Utica, N. Y. : I claim the arrangement of the cutters and the manner of securing them to the cutter rim of the wheel, substantially as set forth.

ILLUMINATING GRATING—Joshua K. Ingalls, of Brooklyn, N. Y. : I claim, first, the spiraloidal lens, and parallel rounded edges set in gearing or perforated plates of wood or metal, set forth.

WINDOW SHADERS—Edward R. Korman, of Pittsburgh, Pa. : I claim the making of flexible or pliable and semi-transparent oil cloth for window shades and other similar purposes by the series of processes described.

CHURNS—Lucius Leavenworth, of Trumansburg, N. Y. : I claim the arrangement of the cords or bands attached to the pulley and also to the staff, being wound on the staff, to give a required rotary motion, as described.

SELF-REGULATING WIND WHEEL—A. Lempecke, of Pleasant Mount, Pa. : I do not claim in itself a spiral spring, I, attached to the sails or wings, for that has been previously used.

PERCUSSION PROJECTILES—John Lippincott, of Pittsburgh, Pa. : I claim the combination of the cylindrical chamber, piston, spiral spring, cap and nose piece, constructed and arranged as described, forming an improved percussion apparatus to be inserted into the powder chamber of bombshells, either in combination with or without a shallow slot of lead of the shape described, the whole being constructed and arranged substantially in the manner and for the purposes set forth.

STOVES—James B. Mabury, of Jeffersonville, Ind. : I claim surrounding the fireplace of a stove of any size or form with a shell of metal, air, or other non-conducting material, in each other, admitting no currents of heated air to circulate through them, and each of them provided with only one valve, constructed and operated as described, for the purpose of controlling the radiation of heat from the outermost shell of the stove, without interfering with the fire in the interior thereof.

MACHINE FOR FELLING TREES—Ebenezer Mathers, of Morgantown, Va. : I claim the method of straining the saw by means of the curved elastic arms, C, C, and the adjustable bar, D, as above.

CONCRETE TUBES—John McCrone, of Thompsonville, Conn. : I claim the use of the crystal as a material for the cones or trumpets used for shaping and consolidating yarn of woolen, cotton, or other materials on bobbins.

MAKING ELASTIC RUBBER CLOTH—Richard McMullin, of New Brunswick, N. J. : I claim rendering vulcanized india rubber, for the manufacture of shirred goods, adhesive, by boiling it in a solution of potash to remove the sulphur from its surface, thus fitting the sheet of rubber to receive a coat of cement, whereby it is caused to adhere firmly to the cloth or other fabric between which it is placed, in the manner and for the purposes substantially as set forth.

SEED PLANTERS—Elijah Morgan, of Morgantown, Va. : I claim in combination the dead hoppers, E, E, the chattering or beveling of the ends of the seeding bar and the scolloping of the shield, so that any grain that may be scattered to the ends of the seeding bar may be forced by it into said dead hopper, substantially as described.

MACHINE FOR MAKING CLOTHES PINS—George W. Parker, of Fitzwilliam, N. H. : I claim, first, the use of holes in a wheel or of tubes secured to a wheel, and into which the pieces of wood are fed, and thus retained in and carried forward to the proper position to be acted on by the lathe saw or bit.

SECTIONAL FIRE-POTS—Merritt Peckham, of Utica, N. Y. : I do not claim forming a fire-pot of sections of parts irrespective of the construction and arrangement, as shown.

BOXES OF RAILROAD CAR AXLES—David R. Perkinpine, of Philadelphia, Pa. : I do not claim, in connection with axle boxes, a movable reservoir with lubricating substances, or the method of constructing the box with a loose bottom.

MAKING CHILLED CASTINGS—Wm. Butler, of Little Falls, N. Y. : I claim the combination of the hollow chill cores, C, No. 1 and C, No. 2, with the sand core, B, for the purposes of obviating the difficulty of warping and springing attending the casting of cast-iron boxes on chills and thereby forming a chamber in the box in the manner and for the purposes described.

SEWING MACHINES—I. M. Singer, of New York City : I claim the method, substantially as described, of distending or gathering up the cloth or other substance, when the needle operates upon it to form the seam by combining in a sewing machine two distinct feeding wheels, or their equivalents, moving with a differential motion, substantially as described.

HARNESSE BUCKLES—Nathan Post, of East Cleveland, O. : I claim attaching to a three barred buckle, first, the flanges N N N, which keep the trace or strap in the center of the buckle.

OMNIBUS REGISTERS—James Rodgers, of New York City : I do not claim the general plan of an omnibus register on a strap by the conductor or driver, or fitted with any other means for moving the register. Neither do I claim the indicating dials or hands, nor any arrangement of the same.

SAWING MARBLE IN TAPER FORM—C. A. Schultz, of Chicago, Ill. : I claim adjusting the said saw by means of the swinging pulleys acting laterally upon it, combined as described, with the pulley regulating the tension, the several parts being arranged and operating substantially as described.

PRODUCING DESIGNS ON WOOD—Philipp Schwickard, of Brooklyn, N. Y. : I do not claim the production of raised designs, but of veins, streaks, drawings, pictures and designs on the plane surface of the woods by means of pressure, the forms or dies described, and of the application of the same for the production of veins, streaks, drawings, pictures, and designs, the exclusive use of the design produced through the body of woods, when compared between proper forms, and the combination of two or more kinds of woods, to produce the mosaic or inlaid work, by compressing, joining and separating them as described.

BRASSES OF CONNECTING RODS—J. R. Sees, of New York City : I claim the combination of the bridge piece, E, and the wedges, D, D, as described, for the purpose set forth.

NAIL PLATE FEEDING MACHINE—J. P. Sherwood, of Fort Edward, N. Y. : I claim the use of the grooved cam with its friction roller and bar, in combination with the slotted or cylindrical cam, nipper handle, and female screw, constructed and arranged as described, and operating to produce the peculiar movements necessary for feeding the nail plate of nail machines, in the manner and for the purposes set forth.

HAT BODIES—A. B. Taylor, of Newark, N. J. : I claim the arrangement of the hat body in a dry state, by machinery operating substantially as set forth.

HARNESSES FOR SHOEING HORSES—W. P. Thomas, of Hillsboro', Ind. : I claim, first, the combination of the windlass, M, with the traces, e, e, the tugs, t, t, and tail lever, or singletree, k, these or their equivalents, by means of which the horse is brought to his place, and secured from lateral motion, substantially as set forth.

ARGAND LAMPS FOR BURNING ROSIN OIL—Isaac Von Bunschoten, of New York City : I claim, first, deflecting a portion of any passing draft, or current of air, up the exterior tube, and extending the wings, f, f, or their equivalents, to counteract the suction or partial vacuum produced at the other portion of the lamp, by said passing draft or current of air, as specified.

BORING MACHINES—I. W. Ward, of Birmingham, Pa. : I am aware that augers have been so arranged as to be made to approach or recede from each other, and still remain in gear with the driving cylinder, but in practice, as he retractor arranged, they are too expensive and troublesome to go into general use.

CIRCULAR SAW SPINDLES—Hiram Wells, of Florence, Mass. : I claim the arrangement and location of the eccentrics with respect to the shaft boxes, B, B, and their stationary and adjusting screw pins, substantially in the manner and for the purpose described.

STRIPPING TOP FLATS OF CARDING MACHINES—Geo. W.elman, of Lowell, Mass. : Patented in England Nov. 25, 1853. I claim, first, the combination of the segmental gear, L, with its projecting rim, Q, and the pinions, O and P, with their attached notched plate wheels, all as applied to the shafts, K M N, for the purpose of giving the alternate intermittent movements to the shafts, M N, as specified.

REPROCATING SAWS—J. Z. A. Wagner, of Philadelphia, Pa. : I claim, first, having the saws, H H, within the saw sash or gate, F, on or to nuts, c, c, which work or are fitted on right and left screw rods, i, substantially as shown and for the purpose specified.

SPINNING WHEELS—Lyman Wright, of Benton, Pa. : I claim attaching the spindle of a band spinning wheel to a vibrating pendulum, and operating the same substantially in the manner and for the purpose set forth.

TUNNELING ROCKS—Charles Wilson, of Springfield, Mass. : I claim, first, the circular formed as a short hollow truncated cone for acting on stone or other material, substantially as and for the purposes specified.

SAFETY APPARATUS TO HARNESSES AND THILLS—Jon. H. Wilson, Jr., of Nashville, Tenn. : I claim attaching the horse directly to the shafts, C, of one horse vehicles, by means of the boxes, A, and rollers, B, secured to the harness, as shown, a box at each side of the horse, the boxes being constructed as shown, with the two hinged or jointed sides, so that they may be opened, when necessary, by the driver, for the purpose specified.

CUT-OFF GEAR FOR STEAM ENGINES—Orville Leonard, of Somerville, Mass. (assigned to himself and G. K. Reynolds, of Medford Co., Mass.) : I claim the rockers, d, the toe, g, and the bar, G, constructed and arranged as described, and operating substantially as set forth.

R. R. CARS—B. J. La Mothe, of New York City. Issued originally April 4, 1854. I claim the construction of the frames of railroad cars, substantially in the manner and for the purposes specified.

NUTS, WASHERS, &c.—Wm. Kenyon, of Steubenville, O. (assignor to Haigh Hartuppe & Morrow.) Patented originally Oct. 4, 1851. I claim, first, the use of the die, T, and die box, M, for severing the blank, the die box in combination with the wedge and bracket, Q, the rollers, and the punch, L, for perforating the same during the pressure, the whole operating conjointly as described, for making nuts or washers at one operation.

FORMING WEBS WITHOUT WEAVING OR SPINNING—Union Manufacturing Co., of Norwalk, Ct. (assignees of the legal representatives of John Arnold, deceased.) Patented originally July 15, 1852, extended by Congress 14 years from March 28, 1854. I do not claim the carding machines or any parts thereof in common use.

MASH MACHINES—Adolph Hammer, of Philadelphia, Pa. Patented Jan. 9, 1855. I claim the construction, application, and use of the inclined curved teeth, A and B, substantially and for the purpose as set forth and described.

GAS BURNERS—C. H. Johnson, of Boston, Mass. Patented dated June 26, 1855. I claim extending up into the gas distributor and purifier, and among the wires of the latter, as specified, a cone having at its apex, x, the inlet opening for the passage of gas into the purifier, the same serving to attain advantages, as explained.

ELEVATED OVEN STOVES—S. W. Gibbs, (assignor to W. & J. Treadwell, Perry & Norton,) of Albany, N. Y.

DESIGNS. ELEVATED OVEN STOVES—S. W. Gibbs, (assignor to W. & J. Treadwell, Perry & Norton,) of Albany, N. Y.

NEW YORK RAILROADS. The Annual Report of the Railroad Commissioners—J. T. Clark, Wm. J. McAlpine, and James B. Swain—of New York, for the year 1855, has just been published.

It seems that some of our railroads are managed in a very disreputable manner. The report states that some companies instead of promptly furnishing correct reports of their condition and affairs, exhibited great unwillingness to do so; and some companies furnished careless and deceptive statements. The books of some companies are kept in such an imperfect manner that it is difficult to obtain important information. Nearly all the reports furnished contained errors. This is really degrading to the character of our railroad companies.

There are two great railroad corporations in New York, "the New York Central," and the "New York and Erie." The former has over 862 miles of track, including side tracks and branches, costing over \$24,000,000. It has 188 locomotives in use; the express trains run at the rate of 35 miles per hour, and passengers are carried for 2 cents per mile. The New York and Erie has 729 miles of track, including branches and double tracks. It has 203 locomotives. The total cost of equipment, &c., was \$33,742,317. These two railroads overshadow all the others.

A condensed compendium of the accidents, experiments made on the different roads, and the examinations had, has yet to be prepared.