

OFFICIAL REPORT OF PATENTS AND CLAIMS

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PATENTS ARE GRANTED FOR SEVENTEEN YEARS, the following being a schedule of fees:—

Table with 2 columns: Fee description and Amount. Includes items like 'On filing each caveat', 'On filing each application for a patent', etc.

In addition to which there are some small revenue-stamp taxes. Residents of Canada and Nova Scotia pay \$500 on application.

Pamphlets containing the Patent Laws and full particulars of the mode of applying for Letters Patent, specifying size of model required, and much other information useful to inventors, may be had gratis by addressing MUNN & CO., Publishers of the Scientific American, New York.

83,817.—OIL BLACKING FOR LEATHER.—S. S. Allen (assignor to himself and John B. Morris), Richmond, Ind. I claim the within specified composition as an oil blacking for leather mixed in the proportions substantially as set forth.

83,818.—FIELD ROLLER.—William W. Andrew, Grand Rapids, Mich. I claim, 1st, A dividing board, B, provided with plates, F, F', and grooves, H, H', and extended forward of the frame, A, under the pole, J, where it is perforated, e, e, e, to receive the clevis, all constructed to operate as specified.

83,819.—PIN CUSHION.—L. J. Atwood, Waterbury, Conn. I claim a pin cushion formed of a ring or disk of fibrous material, confined between two metallic plates, which are connected together by rivets or other metallic connections, as set forth.

83,820.—HAIR RESTORATIVE.—E. J. Balcear, Martinez, Cal. I claim the within described ingredient or root, treated and prepared in about the manner herein specified for the purposes set forth.

83,821.—HORSE HAY FORK.—H. J. Beemer, Honesdale, Pa. I claim the hay harpoon, constructed as described, and consisting of the shanks, A, B, pivoted arm, C, lever, L, made in two parts, m, m, and jointed at g, pivots, x, cross bar, E, and grooved pulleys, P, P', all constructed, arranged and operating as set forth and for the purpose specified.

83,822.—STIRRUP.—E. S. Bennett (assignor to himself and J. Smith), New York city. I claim a stirrup made with one side entirely open, with a device for preventing its slipping, substantially as and for the purpose set forth.

83,823.—MEDICAL COMPOUND.—E. M. Berry and L. M. Berry, Saldillo, Ind. We claim the compound above described, substantially as and for the purposes herein set forth.

83,824.—SASH FASTENER.—J. V. Bogert, New York city, and M. R. Perkins, Portsmouth, N. H., assignors to themselves and John F. Lowell, Boston, Mass. We claim the sliding bolt and its spring, when arranged as shown, with the projecting catch spring, substantially as and for the purpose specified.

83,825.—APPARATUS FOR PASTING LABELS.—W. E. Booraem, New York city. I claim, 1st, Preparing (or pasting) and presenting the labels, ready to be affixed to the bottles, in the manner described, that is to say, by applying the paste to a plane or board, adapted to transfer the paste to the back side of the label, over its entire surface, and pick it up and present it for transfer by hand to the bottle.

83,826.—UTERINE SUPPORTER.—J. T. Boyd, M.D., Indianapolis, Ind. I claim the curved wires, M, M', and B, and their corresponding grooves in the pad, A, with their fastenings and attachments, in the manner and for the purpose substantially as set forth.

83,827.—COMBINED WATER ELEVATOR AND DAIRY.—H. N. Brooks, Bloomington, Ill. I claim the arrangement of a colling apartment, C, constructed and furnished substantially as described, and an automatic water-elevating apparatus, substantially as set forth.

83,828.—TYPE-CASTING MACHINE.—David Bruce, Brooklyn, N. Y. I claim, 1st, The loose pulley, G, having a pawl, F, attached thereto, in combination with the cam wheel, D, having a notch, E, in its periphery, substantially as hereinbefore set forth.

83,829.—VEGETABLE CUTTER FOR ANIMAL FOOD.—R. I. Burbank, Boston, Mass. I claim, 1st, A series of rotating carriers, A or B, constructed as shown and arranged and operating in connection with a series of rotating circular saws, in the manner and for the purpose specified.

83,830.—HEAD BLOCK.—C. R. Bushnell, St. Anthony's Falls, Minn. I claim, 1st, The graduated semicircle, I, resting upon the carriage, and provided with square set screws, K, armed lever, H, ratchet pawls, G, ratchet wheels, F, D, and shaft, C, all arranged to operate in the described manner for the purpose specified.

83,831.—CUTLERY.—W. T. Clement, Northampton, Mass. I claim the within described method of the manufacture of cutlery, consisting in bending the wrought iron, B, and beveling its ends, as represented, and afterwards compressing it together upon the steel, and welding and drawing it, substantially in the manner and for the purposes herein set forth.

83,832.—CORN SHELLER.—D. Codd, Ottawa, Canada. I claim, 1st, The toothed cylinder, B, and the corrugated or grooved endless belt, F, in combination with each other, the toothed surface of said cylinder moving at right angles to the direction of said endless belt, substantially as herein shown and described and for the purpose set forth.

83,833.—POTATO DIGGER.—V. P. Corbett, Alexandria county, Va. I claim the arrangement and combination of the revolving toothed cylinder of bar, C, scoop, A, with pronged front spring bars, s, s, and wings, W, W, constructed and operating substantially as and for the purposes set forth.

83,834.—SAFETY SWITCH LOCK.—H. C. Cotter and George G. Greene, Fort Wayne, Ind. We claim the stop bar, A, carrying stops, a, a', a'', and eccentric levers, C, C, in combination with the stop bar, H, having recesses, m, n, the whole being constructed in the manner and for the purpose substantially as set forth and described.

83,835.—POSING APPARATUS FOR PHOTOGRAPHS.—Gustav Crümer and Julius Gross, St. Louis, Mo. We claim, 1st, The body rest, A, when provided with flexor joints, m, and extension joints, n, constructed substantially as herein described and set forth.

83,836.—ARTICLE OF FOOD PREPARED FROM FISH AND POTATOS.—W. D. Culler, Philadelphia, Pa. I claim the within described mixture of desiccated potato and fish, as a new commercial article.

83,837.—KEY-HOLE GUARD.—C. B. Davies, Dayton, Ohio. I claim cap, A, provided with projecting arm, B, and spring, C, when used in connection with bolt, D, perforation as described, and thumb screw, E, substantially as described and for the purposes set forth.

83,838.—CULTIVATOR.—Samuel Day, Delavan, Ohio. I claim, in a corn cultivator, the mode of guiding the machine and shovels by means of the crank, D, and connections, with the lever, C, as and for the purposes above described.

83,839.—HARVESTER.—J. F. Earl, San Francisco, Cal. I claim, 1st, The vertical adjustment of the cutter frame, relative to the main frame, upon a pivot or shaft, in advance of the main axle, by means and substantially in the manner described.

83,840.—SHEEP RACK.—John Elliott and William Lee, Chipewah, Ohio. We claim the hinged covers, C, D, so arranged and combined with the rack, A, as to form a roof when folded up, and grain trough when turned down in the manner as described.

83,841.—MACHINE FOR MAKING SHIRT GLASS.—Samuel S. Ferris (assignor to himself and William O. Robbins), New York city. I claim, 1st, A pair of rollers, formed hollow, and provided with means, substantially as described, for regulating their temperature, in combination with the inclined table, G, and movable side pieces, H, for regulating the width of the melted glass passing to said rollers, substantially as set forth.

83,842.—QUARTZ CRUSHER.—Edward Ford, San Francisco, Cal. I claim the horizontally-acting batteries, A and B, when placed one above the other and acting against the vertical dies, E, E', with the screen, M, and feeding therefrom one to the other, the whole constructed and operating substantially as and for the purpose herein described.

83,843.—THRILL COUPLING.—Norman N. Gordon (assignor to himself and Robert Boyd), Rochester, N. Y. I claim the combination of the closed eye, D, provided with narrow neck, F, with the jaws, A, provided with the separated bearings or journals, B, B', the whole arranged and operating in the manner and for the purpose as described.

83,844.—WINE OR CIDER MILL.—H. B. Goucher, Peatonica, Ill. I claim the apron, C, ropes, C', and elastic bands, D, when arranged and operated substantially as and for the purposes set forth and described.

83,845.—DREDGING MACHINE.—Andrew J. Gove, San Francisco, Cal. I claim, 1st, The beam, E, turning about the axis, C, and the governing chain, G, moving about the drum, H, together with the excavator, K, and its lever, D, pivoted to the beam, E, at the point, F, also the regulating chain, I, the whole constructed and arranged substantially as and for the purpose as described.

83,846.—PRESSURE BLOWER.—William C. Grimes, Philadelphia, Pa. I claim, 1st, A series of rotative bellows, C, C', in combination with the angled shafts, B, B', arranged to operate substantially as hereinbefore described and for the purpose set forth.

83,847.—POTATO DIGGER.—Andrew M. Hall, Falmouth, Me. I claim, 1st, The combination of arms, B, pivoted at I and y, plate, J, clamps, K, hand or lever piece, L, to adjust the screener, E, when desired, support the rear end of it, and still to allow of its vibrating motion, as herein set forth.

83,848.—VALVE AT THE END OF TUBES.—J. R. Hamilton, M. D., Dexter, Me. I claim, 1st, The valve, C, formed by the partial excision of the closed end of a hollow cylinder, substantially as described and for the purposes herein set forth.

83,849.—PAINT CAN.—E. B. Hamlin, St. Louis, Mo. I claim, 1st, The reinforcing band, B, when constructed with a lip, b, at its top edge, and attached to the can, A, in the manner and for the purpose herein described.

83,850.—CORK-CUTTING MACHINE.—George Hammer (assignor to himself and Alfred Butz), Philadelphia, Pa. I claim, 1st, The sliding spindle frame, D, when its live spindle, J, is actuated by the clutched chain pulley, J', and clutch lever, K, substantially as and for the purpose specified.

83,851.—CORN HARVESTER.—E. K. Harvey, Quincy, Ohio. I claim the belt, F, guides, n, n, belts, E, E', and saw, D, combined, arranged, and operating as set forth.

83,852.—MACHINE FOR BENDING CARPET BAG FRAMES.—Henry Havell, Newark, N. J. I claim an improved machine for making traveling bag frames, consisting of its several parts, herein described, combined and arranged substantially as described and for the purposes set forth.

83,853.—CHURN.—Silas Hewitt, Seneca Falls, N. Y. I claim, 1st, The dasher, A, when constructed substantially in the manner and for the purpose set forth.

83,854.—VAPOR BURNER.—Samuel Holmes, 180 High Holborn, England. I claim, 1st, The combination of the insulating casing, the packed gas tight joint, and the valve constructed to operate substantially as before described.

83,855.—CAR SPRING.—Edwin J. Horner, Wilmington, Del. I claim, in combination with a suitable box, A, provided with an overlapping plate, D, in the interior, the arrangement of the concentric springs, B, and D, the three being graduated and extending one above the other, as shown, and held in position by the pins, I, for the purpose of suiting the light, medium, and heavy weight of a railroad car, all as shown and described.

83,856.—SAWING MACHINE.—Samuel Hunter, Andrew county, Mo. I claim the plates, a, a', the lower rigid upper pivoted, provided with the orifices, c, c', adapted to varying the direction of the driving shaft, substantially as described.

83,857.—AUTOMATIC CAR COUPLING.—William W. Jeffery, Greenview, and Cyrus Snyder, Middletown, Ill. We claim the links, A, B, constructed and arranged as described, with the pins, C, C', and double cam, M, in the drawheads, as and for the purpose set forth.

83,858.—PUMP.—Jacob O. Joyce, Dayton, Ohio. I claim, 1st, The combination and arrangement of the valves, N, N', and M, with the openings, U, V, and K, substantially as and for the purposes specified.

83,859.—ADJUSTABLE BOX FOR ARBOR, ETC.—Benjamin D. Kay and Henry E. Kay, Fall River, Mass. We claim the brasses, B1, B2, etc., hinged in the casing, A, and arranged relatively to the arbor, M, the hinge screws, C, and adjusting screws, D1, D2, or their equivalents, substantially as and for the purposes herein set forth.

83,860.—RAILWAY TRACK CLEANER.—Richard A. Kendall and Thomas Kendall, Mineral Point, Wis. We claim a railroad track cleaner, composed of the shovel, A, attached to the check board, E, by levers, C, C', and rods, D, D', in combination with the hinged and driven platform, operated by the rods, L, substantially as described, as and for the purposes specified.

83,861.—BEE-HIVE.—Isaac King, Germantown, Ohio. I claim the combination of chamber, A, with removable chamber, B, and the interior box, D, and chamber, C, without the interposition of a diaphragm, when the parts are constructed, ventilated and arranged in the manner and for the purpose substantially as described.

83,862.—HORSE POWER FASTENER.—Richard Knott, Snisun, Cal. I claim the arrangement of the frame, A, with arms, E, E', attached to the timbers, C, C', the hooks, G, G', and adjusting screws, I, I', for fastening the horse power to the ground, retaining it in position, and leveling it, substantially as herein described.

83,863.—STEAM GENERATOR.—William H. Laubach, Philadelphia, Pa. I claim, 1st, The combination of the transverse pipe, a, the horizontal pipes, b, and the inner vertical feed pipes, b', c, constructed substantially as described.

83,864.—SLEIGH RUNNER.—Jacob Laux, Cleveland, Ohio. I claim, 1st, The semi-disk or plates, F, radial arms, H, H', in combination with the sleigh runner, in the manner and for the purpose specified.

83,865.—VAPOR BURNER.—David H. Lowe, Boston, Mass. I claim the reservoir, A, burner, C, perforated cap, G, and non-conducting material, D, when all are constructed and arranged to operate as shown and described.

83,866.—WEEDING-HOE.—Alfred E. Lyman, Northampton, Mass. I claim the graduating expansive weeding hoe (or weed cutter), as substantially described and herein set forth.

83,867.—GATE.—Peter McCollum, Fayette, Mo. I claim the gate, A, A', when arranged in two parts, hinged together, so as to allow the bottom part to be folded up or thrown open as described.

83,868.—APPARATUS FOR COLLECTING PRECIOUS METALS.—James T. McDougall, San Francisco, Cal. I claim, 1st, Vertical or inclining iron standards, C, C', with stems or bars, D, resting on a plate or piece of copper, B, or plates of some other metal having affinity for mercury, when used for collecting the precious metals, substantially as described.

83,869.—BLIND HINGE.—William McKee, and Chas. H. Jordan, Washington city, D. C. We claim the arrangement and combination of the latch, D, with its forked head, H, when operated as herein described, and for the purpose set forth.

83,870.—MACHINE FOR CUTTING OUT GARMENTS.—W. A. McLaughlin, New York city. I claim the slider, u, and clamping lever, t, constructed as set forth, and actuated by the arms and rock shaft, q, in combination with the follower, e', and toggles, f, actuated as specified, to operate the cutters when the feeding device is not acting upon the cloth as set forth.

83,871.—FARM FENCE.—E. G. McMillan, Norwalk, Ohio. I claim the band, C, cap, I, and stakes, D, as arranged in combination with the posts, G, and rails, A, for the purpose and in the manner substantially as set forth.

83,872.—MEDICAL PLASTER.—S. I. Merrill (assignor to D. U. Young, and M. C. Merrill), Falmouth, Me. I claim the above-described compound of ingredients, in the named proportions, for the purposes set forth.

83,873.—GUN CARRIAGE.—Alexandar Moncrieff, Woolwich, England. Patented in England, June 4, 1866. I claim the before-described system of mounting and working ordnance, whereby the gun is supported upon a moving fulcrum, which, on the firing of the gun, is caused to shift nearer to the gun, and farther from a counterweight, spring, or other force, while at the same time the gun is brought into a lowered position, for reloading, and is then automatically raised into position for firing.

83,874.—LAMP.—Samuel C. Moore, Boston, Mass. I claim, 1st, The combination and arrangement of the cap, H, cap, G, bangers, I, slide, F, and tube, B, all constructed and operating in the manner described.

83,875.—HORSE RAKE.—L. H. Morrill, West Cumberland, Me. I claim the sliding clutch, C, on the axle, B, together with its spring, F, chain, I, lever, G, and pin, H, set in the axle, B, all as and for the purposes set forth, the clutch being attached to the axle at the center, to make the draft upon the cattle even when the rake head is being lifted.

83,876.—GAS BURNER.—Henry B. Myer, Philadelphia, Pa. I claim the combination of the upper tip, J, metallic corner, C, gas body, A, valve, K or K', a lower tip with side aperture or apertures, G', therein, and a base, H, all constructed substantially as shown and described.

83,877.—ILLUMINATOR FOR STOVES, GRATES, ETC.—Benjamin Nott, Albany, N. Y. I claim, 1st, The within described illuminator, hinged to a stove or other heater in the manner and answering the purpose of a door, as set forth.

83,878.—HARROW.—William F. Osborn, Mount Pleasant, Pa. I claim, 1st, The combination, substantially as set forth, with a harrow, of a supporting carriage, inclosed within the harrow, and carrying devices for lifting the harrow at the will of the driver.

83,879.—WAGON BRAKE.—J. J. Pierce, Maquoketa, Iowa. I claim the combination of the lever, J, arm, F, slot and bolt, H, and rack, I, the rock shaft, D, arms, M, M', rods, N, collars, O, O', springs, R, R', and bar, P, the whole combined, arranged, and operating as described.

83,880.—RAILWAY RAIL.—James Potter, Portland, Me. I claim, 1st, The chair, d, when secured to the sleepers, c, as described, by bolts, f, in a, and braces, i, i', as and for the purposes set forth.

83,881.—GATE.—Fitch Raymond, and August Miller, Cleveland, Ohio. We claim the spring, F, and hinges, C, as constructed and arranged, in combination with the gate, for the purpose and in the manner specified.

83,882.—HYDRANT.—Robert Reilly, Baltimore, Md. I claim, 1st, The combination of the parts, C, D, E, the two former capable of being firmly attached together, by the screw, N, with the tubular plunger, I, and the discharge pipe, J, when so arranged as to enable the operator to grasp and remove the hydrant from the pipe, by simply turning the handle of the plunger, substantially as described.

83,883.—HASP FOR TRUNK LOCKS.—Nathan P. Ryder, Boston, Mass. I claim the eye, E, so attached to the hasp, D, as to allow a motion of the latter independently of the eye, as and for the purpose specified.



**83,978. TOY WATCH.**—Joseph Laubereau (assignor to J. de Sussin), Paris, France.  
I claim the combination of the pulleys, *f, g, elastic string, d*, and friction lever, *a, e*, with each other and with the watch case, substantially as described for the purpose specified.

**83,979. CORN PLANTER.**—E. B. Lawrence and C. Quick, Lakeville, Ohio.  
We claim, 1st, The seed slide, *G*, provided with the arm, *g*, arranged to be operated by the cane, *b*, upon the wheel, *C*, substantially as described.  
2d, The spring, *h*, secured to the wheel, *C*, in combination with the lock bar, *K*, arranged to operate as described.  
3d, The combination of the slide, *G*, and the levers, *H* and *I*, arranged as shown and described.

**83,980. BOOK BINDING.**—J. S. Lever, Philadelphia, Pa., assignor to R. C. Browning, Orange, N. J.  
I claim the within described means or method for cementing the muslin or other surface material upon the boards of book covers.

**83,981. PUNCHING MACHINE.**—Warren Lyon, New York city.  
I claim the construction and arrangement, hereinbefore described, of the lever, *J*, and pinion, *I*, slotted toothed sector, *H*, pitman, *G*, punch stock, *E*, guide, *L*, and frame, *A*, for the purpose set forth.

**83,982. HEAD BLOCK.**—A. C. Martin and Wm. Ritchie, Hamilton, Ohio.  
We claim, 1st, The arrangement of the block, *L*, loosely on the shaft, *G*, between the revealed rings, *N, O*, to produce a traversing or feeding movement, substantially as and for the purpose described.  
2d, The combination of the four segmental portions, *m*, and the portion, *l*, of block, *L*, with the shaft, *G*, substantially as and for the purpose specified.  
3d, One or more pawls, *n*, with an oscillating block, in combination with the rotary shaft, *G*, substantially as and for the purpose described.  
4th, The pawl-shifting mechanism, consisting of the ferrule, *e*, and plate, *g*, in combination with the pawls, *n*, operating in the manner and for the purpose described.  
5th, The ring or ferrule, *e*, springs, *x*, and plate, *g*, in combination with pawls, *n*, in the manner and for the purpose described.

**83,983. SASH FASTENER.**—W. K. Marvin, New York city.  
I claim, 1st, A sash fastener, composed of one or more sliding jaws or equivalent compressing and holding devices, in combination with a double cam or eccentric shaft, and handle for actuating said jaw or jaws, substantially as and for the purpose set forth.  
2d, The herein described construction and arrangement of the two-jawed sash-fastening plates placed together and recessed to receive the double cam or eccentric, in the manner specified, the under or lower plate being slotted to receive the end of the cam shaft, and to admit of the movement of the same in the direction of the length of the said plate, as and for the purposes set forth.

**83,984. FEED CUTTER.**—Norman McLeod, Ohio, S. C.  
I claim, 1st, The knives, *L*, when made in the shape described, and attached to the arms, *M*, in the manner set forth.  
2d, The circular screen, *B*, composed of two parts, the upper one of which is provided with a spout, *F*, and hinged to the lower portion, which is rigidly secured to the frame, *A*, all constructed in the manner and for the purpose set forth.  
3d, The combination of the arm, *I*, with the ratchet wheel, *J*, pawl, *K*, feed roll, *E*, and knives, *L*, whereby the said parts are made to operate together substantially as and for the purpose set forth.  
4th, The arrangement and combination of the shafts, *C*, cutters, *M, L*, screen, *B*, feed table, *F*, rolls, *E, G*, ratchet, *J*, pawl, *K*, and arm, *I*, substantially as described and shown.

**83,985. IRON FENCE-POST.**—William Merrell, Kent, Ohio.  
I claim the fence post, *A*, formed with groups of studs, *a, a, a*, holes, *c*, and wings, *C*, all substantially as and for the purpose set forth.

**83,986. HOOP SKIRT.**—Isaac T. Meyer, and James F. J. Gunning, New York city.  
We claim, 1st, The combination with the hoop skirt, of an adjustable bustle, made up of springs so hinged, pivoted, or connected at their ends to the skirt, and provided with straps uniting them to the waistband at points or in lines intermediate of the ends of the springs, as that said bustle, by letting out or taking in said straps, may be readily raised or lowered, substantially as and for the purpose herein set forth.  
2d, The trail, *C*, made up of springs hinged, pivoted, or otherwise connected, at their ends, to the skirt, in such manner as that said trail may, at pleasure, be let down or thrown up and back out of the way, essentially as shown, and described.

**83,987. HAMES FASTENING.**—Charles Morgan, Waumandee, Wis.  
I claim the hames fastener, constructed as described, of the bar, *A*, provided with a hook, *F*, for receiving one end of the bar, *B*, carrying the hoes, *B*, which bars are held in place by the slide, *D*, all operating as described, whereby, when the bar, *F*, is released by the slide, the hoes are detached from each other, as herein shown and described.

**83,988. FIRE KINDLER.**—Issachar Morris, Clinton, Ill.  
I claim the burner, *B*, made conical, or tapering towards its orifice, for the purpose described, in combination with the cup, *C*, sack, *C*, containing pumice stone, or other porous substance, and handle, *A*, substantially as described.

**83,989. SHUTTER WORKER.**—Louis Muller and Cornelius Hood, Hartford, Conn.  
We claim, 1st, The combination of the box or casing, *f*, with the wheels, *d*, *a*, *e*, and the rot, *g*, all arranged as described.  
2d, The combination and arrangement of the button or arm, *l*, having the connecting rod and handle, *k*, with the lever, *m*, for the purpose of securing the blind or shutter when closed, and for operating the slats, substantially as described.

**83,990. REGULATING GAS BURNER.**—Henry B. Meyer, Philadelphia, Pa.  
I claim, 1st, The glass body, *B*, fig. 2, having a small aperture in its bottom, in the manner and for the purposes set forth.  
2d, The glass body, *B*, with its small aperture at the bottom, forgoing the glass cone and glass box, *H*, and the valve, *C*, and the cap, *W*, other non-metallic tip, *C*, all constructed and arranged as and for the purpose specified.  
3d, In combination with the above-described burner, the wire gauze or other fibrous valve, resting upon the small aperture, at the base of the glass body, *B*, as and for the purpose set forth.

**83,991. DIVIDED CAR AXLE.**—J. K. Nelson, Greenpoint, N. Y.  
I claim the divided car axle, *A*, constructed as described, with the revolving self-lubricating box, *C*, removable collars, *e*, and flexible collar, *f*, substantially as and for the purpose herein set forth.

**83,992. POTATO AND CORN FLOW.**—Charles F. Noftz, Toledo, Ohio.  
I claim the combination of the screw, *K*, nut, *b*, and jointed levers, *J, J*, for securing the position of the wings, *I, I*, substantially as and for the purposes herein shown and described.  
A plow, consisting of the combination of the beam, *A*, handle, *D*, standard, *F*, arrow head share, *H*, adjustable wings, *I, I*, adjustable counter, *B*, and adjustable draft chain, *C*, that works in the up-and-down adjustable notched plate, *L*, all made, arranged and operating substantially as and for the purpose herein shown and described.

**83,993. BOILER FEED WATER REGULATOR.**—James K. P. Nourse, West Medway, Mass.  
I claim the combination of the vessel, *C*, and float, *F*, of the pump, *P*, the bent pipe, *d*, and its gate, *g*, contained within the said vessel, and connected to the said float, the whole being arranged substantially as herein shown and described.  
2d, In combination with the arrangement of parts claimed in the preceding claim, the steam whistle, *H*, pipe, *a*, and lever, *h*, connected with the float, *F*, as specified, the whole being arranged substantially as herein shown and set forth.

**83,994. SCAFFOLD.**—Frank Odenbaugh, Middletown, Pa.  
I claim a portable platform or scaffold, having end pieces, *A*, platform, *B*, ladder rungs, *a, p*, axle and wheels, *c*, crank and shaft, *r*, ratchet and pawl, *f*, cross bars, *g*, and *h*, ropes, *l, r*, and *u*, and staples, *s*, as described and shown, constructed and arranged substantially as herein specified.

**83,995. HORSE POWER.**—T. G. Palmer, Shultzville, N. Y.  
I claim the herein-described brake combination, consisting of the lever, *C*, rubber, *D*, support, *E*, and trigger, *F*, or their equivalents, all constructed and arranged as and for the purpose specified.

**83,996. MANUFACTURE OF SOAP.**—Henry A. Pease, Hartford, Conn.  
I claim the manufacture by cold and hot process, and combination of these two processes, above-described, together, thereby obtaining a soap which will harden in two hours, when, by the old process, it requires about five days.

**83,997. IMPLEMENT.**—William K. Rairigh, Rural Valley, Pa.  
I claim the implement herein described, constructed and arranged in the manner and for the purpose set forth.

**83,998. MACHINE FOR SPINNING SHEET METAL.**—Adrian Rals, Waterbury, Conn.  
I claim, 1st, The combination, with the metal holding clamp or dies, the one being fixed on a stationary arbor, and the other upon an arbor capable of sliding longitudinally, of a plunger or sliding bolt, to force the movable clamp against the stationary one, and a hinged or pivoted lever for operating said plunger, substantially as shown and set forth.  
2d, Dividing the bearing or journal box of the sliding arbor longitudinally, and hinging the two parts together, substantially in the manner and for the purposes set forth.  
3d, The combination of the sliding carriage, *F*, the spinning rollers, their transverse slides, and the screws for regulating the position of said rolls, so as to adjust the spinning rollers with relation both to each other and to the metal to be operated on, substantially as herein shown and set forth.  
4th, The arrangement of the plates upon which the spinning rollers are mounted, the same being pivoted to and adjustable upon the transverse slide rests of the carriage, *F*, as and for the purposes specified.  
5th, The method of automatically spinning to a pattern, by the employment in connection with the spinning rollers, a hinged carriage, and the hinged or vibratory frame, on which said carriage moves, of a pattern plate, a guide pin for following said pattern, and a weight, or its equivalent, operating upon the free end of the vibratory frame, so as to hold it at all times the guide pin against the pattern, under the arrangement herein set forth.  
6th, The combination of the sliding carriage, its actuating screw shaft, and the vibratory frame on which it moves, of an adjustable plate, *H*, to which the frame is hinged, as described, the said plate carrying a pulley and shaft, connected with the driving shaft of the machine, and communicating motion to the screw shaft, substantially in the manner and by the means herein shown and set forth.  
7th, The movable halfnut, in combination with the sliding carriage, and its actuating screw shaft, under the arrangement and for operation as set forth.

**83,999. PLOW FENDER.**—S. J. Reed, Middletown, Ohio.  
I claim the curved fender, *e, g*, in combination with lever, *f*, constructed,

arranged, and connected with a plow, in the manner and for the purpose substantially as described.

**84,000. MOP HEAD.**—Otis Root, Wendell, Mass.  
I claim a mop head; consisting of the frame, *A*, with the sleeve, *C*, secured to the handle, *L*, by means of the spurs, *e*, and the end of the band being secured to the sleeve, and turning in a socket in the cross head, *D*, as herein shown and described.

**84,001. MACHINE FOR SCOURING, BLACKING, AND FINISHING LEATHER.**—F. William Rust, Umatilla, Oregon, assignor to himself and A. E. Rogers and A. C. Gibbs.  
I claim, 1st, The scouring blocks, *H*, hinged to the pendulum rod and held in place by rods, *G*, working through the cross heads, *F*, and provided with springs, substantially as described.  
2d, The hinged levers, *I*, attached to the swinging frame, and arranged to operate or adjust the scouring block, *H*, substantially as set forth.  
3d, Suspending the scouring apparatus upon a yielding support, and providing it with a lever and weight, arranged substantially as described, for the purpose of adjusting the scourers to the thickness of the leather operated upon, and also to regulate the pressure of the scouring devices, as described.  
4th, The hollow pendulum, or its equivalent, for holding the blacking, and feeding it upon the leather while in operation, substantially as set forth.  
5th, The perforated cross pipe, *T*, or its equivalent, when arranged to move with the scouring or smoothing devices, for distributing the blacking evenly over the surface of the leather, as described.  
6th, The platform, *B*, provided with a series of balls, *C*, secured loosely in its under side, substantially as set forth, for the purpose of enabling it to be moved in any desired direction, while the machine is in operation.

**84,002. POTTING AND PACKING PLANTS.**—Benjamin L. Ryder, Chambersburg, Pa.  
I claim the above described mode of pottling and packing plants with rectangular masses of earth about the roots, such masses fitting closely against each other, and against the sides of the crate or large box in packing, substantially in the manner and for the purposes set forth.  
Also, the above described close jointed sectional box, or its equivalent, for the purpose of forming the rectangular masses of earth and for pottling and packing plants, substantially in the manner above described.

**84,003. MANUFACTURE OF ARTIFICIAL STONE.**—Carl Schaeffer, Elizabeth, N. J.  
I claim artificial stone, formed of the ingredients herein specified, and treated repeatedly with sulphuric acid, substantially in the manner set forth.

**84,004. RAILROAD CAR VENTILATOR.**—Wilhelm Scharrath, Bielefeld, Prussia.  
I claim forming the walls, ceilings, or partitions of permanent or temporary habitations, wholly or in part of porous material, covered wholly or in part with fibrous or textile fabric, leaving a space between said walls and the fibrous material, as herein set forth for the purpose of ventilation.

**84,005. WASHING MACHINE.**—Oscar Schimmel, Chemnitz, Saxony.  
I claim, 1st, The apron, *d*, in combination with the heaters, *B*, and tub, *A*, substantially as and for the purpose described.  
2d, The double crank, *E*, and sliding boxes, *a*, in combination with the suspended heaters, *B*, substantially as and for the purpose described.

**84,006. HARVESTER.**—Jacob Siebel, Manlius, Ill.  
I claim, 1st, In the construction of harvesters, connecting or coupling the treadle for operating the binding platform to the main frame, *A*, by means of hinges or joints, *P*, arranged at or near the center of said main frame, so that it may oscillate upon said hinges to admit of the raising and lowering of the cutter bar without tipping the binding platform, substantially in the manner and for the purposes specified and shown.  
2d, In combination with said binding platform and main frame, *A*, hinged as described, the lever, *L*, so connected and arranged that the driver, from his seat, on the main frame, can operate the machine in the manner and for the purposes set forth.  
3d, In combination with a harvesting machine having a raking platform with a rear delivery, a binding platform, arranged close behind the raking platform, and hinged to the main frame at or near its center, substantially as described, so that the grain can be raked directly from the raking to the binding platform, and otherwise operating substantially as specified.

**84,007. MECHANICAL MOVEMENT.**—J. A. Shanner, Plainview, Ill.  
I claim the combination, with the wheels, *F* and *G*, of the segments, *H* and *I*, and the rack, *E*, arranged to operate substantially as and for the purpose described.

**84,008. VENEER.**—Henry F. Shepherd, Framingham, Mass.  
Antedated October 31, 1868.  
I claim a compressed and varnished veneer, applicable as wood hangings and for other purposes, substantially as specified.

**84,009. WAGON WHEEL.**—Silas Shirley, Rockford, Ill.  
I claim the wheel described, consisting of the box, *A*, beveling blocks, *B*, with curving flanges, *c*, friction plates, *D*, rods, *C*, and caps, *E*, the whole being combined and operated in connection with the spokes of an ordinary wheel, substantially in the manner and for the purpose described.

**84,010. BEEHIVE.**—Simon Shrock, New Philadelphia, Ohio.  
I claim, 1st, The combination and arrangement of the central hive, *C*, provided with comb frames, *H, H*, sliding face, *W*, feed box, *D*, slant board, *S*, and central tube, *b*, all constructed and operated in the manner and for the purpose set forth.  
2d, The combination of the central hive, *C*, slant board, *S*, central tube, *b*, openings, *K*, honey boxes, *I, I*, provided with corresponding openings, and ventilating boxes, *L, L*, all constructed, arranged, and operated, substantially as described.  
3d, The combination of the drawers, *a*, *a*, tubes, *a, a*, and slant board, *S*, all constructed, arranged, and operated as set forth.  
4th, The arrangement of the central hive, *C*, slant board, *S*, central tube, *b*, honey boxes, *I, I*, ventilating boxes, *L, L*, feed box, *D*, drawers, *a*, *a*, and tubes, *a, a*, all constructed and operated as set forth.

**84,011. PAINT FOR BUILDINGS, ROOFS, ETC.**—J. H. Smith, and George O. Smith, Chicago, Ill.  
We claim a paint composed of the ingredients herein named, and compounded substantially as herein set forth.

**84,012. RAILWAY CAR MOVER.**—Ezra Springer, Davis, Ill.  
I claim, 1st, The driving wheel, *D*, in combination with the driving gears, arranged and operating conjointly, as and for the purpose substantially as specified.  
2d, The lever, *Q*, rod, *R*, and stay, *P*, in combination with the arm, *N*, feather keys, and shifting gears, applied to the purpose set forth.  
3d, The racks, *A*, sliding dog, *C*, in combination, arranged in the manner and for the purpose set forth.

**84,013. ANIMAL TRAP.**—William A. Stack, Hillsborough, Md.  
I claim the arrangement of the box, *B*, the rotating wheel, having the trap door arms, *c, c*, the stop, *m*, pivoted bolt holder, *h*, spring, *o*, wall, *D*, and metallic bait box, *E*, when the said parts are constructed and arranged to operate in the manner described.

**84,014. STEAM ENGINE STEAM CHEST.**—William Stamp, Squabanna Depot, Pa.  
I claim the construction of the wire packing, inserted in both surfaces of the joint to be made, substantially as herein described.

**84,015. BIT HOLDER.**—Charles H. Stokbridge (assignor to himself and Osmore O. Roberts), Northampton, Mass.  
I claim the bit stock, formed of the clamping jaws, *e*, set in grooves having curved bottoms, in combination with the contractile spring, *i*, and sleeve, *d*, substantially as set forth.

**84,016. CULTIVATOR.**—Alfred F. Stoner, West Unity, Ohio.  
I claim, 1st, The spiked roller, *B*, in combination with the spring concave or toothed bar, *M*, arranged and operated substantially as set forth.  
2d, Also, the arrangement of the hiller, *E*, in combination with the share *C*, in the front part of the frame, and the pulverizing roller and concave substantially as described.

**84,017. HORSE HAY FORK.**—Ole O. Storle, Norway, assignor to himself and J. B. Smith, Milwaukee, Wis.  
I claim the parts, *B, F*, and *G*, in combination with the screw on shaft, *A*, substantially as described.

**84,018. COFFEE AND TEA POT.**—R. Strickland, Albany, N. Y.  
I claim, 1st, A coffee or tea pot, having a strainer hinged to it inside, and applied over the orifice at the base of the spout, substantially as described.  
2d, The hinged strainer, *C*, provided with a weight, *b*, operating substantially as described.

**84,019. MACHINE FOR WELDING TUBING.**—John E. Tencate, Pittsburg, Pa.  
I claim, 1st, The arrangement of the rolls, *A* and *B*, guides, *e*, levers, *C*, and *D*, and mandrel, *F*, provided with enlargements, *x*, and *x*, the whole being constructed, arranged and operating as herein described, and for the purpose set forth.  
2d, The scrapers, *y*, in combination with the rock shaft, *P*, provided with oblique slots, *z*, constructed, arranged, and operating substantially as herein described, and for the purpose set forth.

**84,020. COFFEE POT.**—Hermann Thal, and Gustav Schlottmann, New Haven, Conn.  
I claim the arrangement and combination of the strainer, *C*, tubular neck, *g*, flanged mouth piece, *f*, gutter, *d*, cap, *h*, perforated disk, *i*, and vessel, *A*, all constructed and operating substantially as and for the purpose shown and described.

**84,021. GAS MACHINE.**—William Thompson (assignor to H. B. Myer), Cleveland, Ohio.  
I claim, 1st, The bellows, *B, B*, for forcing air into the receiving bag, as described, in combination with the carbureters and purifiers.  
2d, The combination of receiving bag, *C*, and bellows, *B, B*, substantially as set forth, with the upper and lower carbureters.  
3d, The arrangement of the bellows, *B, B*, the large air bag, *C*, the passage pipe, *D*, and the perforated collar, *B*, substantially as set forth.  
4th, The coil partitions, *G, G, G*, fitted with sponge or other equivalent material, forming a lower carbureting chamber, substantially as set forth in combination with the purifier.  
5th, The combination of the purifying chamber, *S*, and the upper carbureting chamber, substantially as described.  
6th, The pipe, *T*, and cock, *T*, for conveying residue or surplus oil from the carbureting cylinders, substantially as described.  
7th, The combination of the bellows, *B, B*, the receiving bag, *C*, the passage pipe, *D*, the coil partitions, *G, G, G*, the chamber, *S*, the pipe, *T*, and cock, *T*, when the said parts are arranged, combined, and operating as and for the purposes herein set forth.

**84,022. PACKING FOR JOINTS OF STEAM ENGINES.**—William J. Towne (assignor to the Silver Lake Manufacturing Company), Newtonville, Mass.  
I claim the application of a glazing or coating to the exterior surface of a packing, substantially as and for the purpose described.

**84,023. RAILWAY CHAIR AND SUPPORT.**—Aaron Van Gynsburg, West Albany, N. Y.  
I claim, 1st, The railroad chair support, consisting of the hollow supports, *A* connected by the tube, *B*, the chairs, *C*, having the fixed lip, *cl*, and the

