

I claim as a new article of manufacture, a paper or cloth collar having one or more semi-circular, semi-elliptical, or rectangular slits or cuts in the band thereof, forming a tongue, made substantially as herein described and for the purposes specified.

67,135.—GATE.—Eli Petteys, Chestertown, N. Y.
1st, I claim the use of the bar, H, with its arm, J, with the segment, G, in combination with the rear bar of the gate and its pinion, as and for the purpose set forth.
2d, The cross bar, I, provided with its cords or rods, s, in combination with the bar, H, as constructed and used, substantially as set forth.
3d, The shaft, l, provided with the oval collar and used in connection with the loops, a, as and for the purpose set forth.
4th, The arm, J, lever, K, spring, L, and latch, M, arranged and used substantially as and for the purpose set forth.

67,136.—GRATE.—Nelson Pramer, Troy, N. Y. Antedated July 14, 1867.
1st, I claim the combination of a cylindrical or other shaped grate, A, with a stationary horizontal bar of support, D, in the manner and for the purposes substantially as hereinbefore fully described and set forth.
2d, The employment of the hook, C, in combination with the recess, E, by means of which the grate is operated in the manner and for the purposes substantially as hereinbefore described and set forth.

67,137.—BOAT-DETACHING TACKLE.—Thomas M. and Thomas J. Raser, Philadelphia, Pa.
1st, I claim, in combination with the two jaws of the hook pivoted together, as described, the spring, l, and latch, p, with its catch, c, tongue, d, with its catch, e, and the groove, d', all constructed and operating substantially as described.
2d, In combination with a hook, constructed and operating as above described, I claim the pin, f, as and for the purpose described.
3d, In combination with a hook constructed and operating as described, I claim the neck pin, i, and groove, i, as and for the purpose described.
4th, In combination with the tongue, d, and groove, d', I claim the guard plates, g, on each side of the tongue, arranged and operating as and for the purpose described.

67,138.—WINDING AND SETTING WATCHES.—Henry Rothfelder, New York City.
1st, I claim the lever, B, lever catch, r, stud, s, and spring, m, in combination with the wheels, d, e, a, and g, and with the button, h, all constructed and operating substantially as described for the purpose set forth.
2d, The cam-shaped shoulder, k, on the ring, j, in combination with the pin, l, and barrel, g, constructed and operating substantially as and for the purpose described.

67,139.—BRACE FOR BITS.—W. F. Seavey, Portland, Me.
I claim the horizontal sliding slot-plate, C, when moving in the slot in the part, 2, of the bit brace and further secured by the screw, d, and having the three slots, 3, 4, 5, substantially as and for the purposes herein set forth and described.

67,140.—COMBINED KNOB, LATCH AND LOCK.—Balthasar Seegmiller, New York City.
I claim the hooked tumbler, f, pivoted on the bolt and provided with a knob passing through a slot in the lock case in combination with the saddle operated by the handle, substantially as and for the purposes set forth.

67,141.—BROADCAST SEEDER.—Jacob Slauder (assignor to himself and Levi C. Smith), Osborn, Ohio.
1st, I claim the reversible seed box, N, attached to the seed box as above shown when constructed and used substantially as and for the purpose described.
2d, The adjustable bottom, c, c', of the seed box which may be elevated or depressed at pleasure, substantially as and for the purpose specified.
3d, The combination of the plow beams, K, R, the plow standards, H, H, the beam, M, and the lever, I, substantially as and for the purpose described.
4th, The arrangement of the alternate short standards, H', on the plow beams, K, and the long standards, H, affixed to the beam, G, substantially as and for the purpose specified.

67,142.—COUPLING REACHES FOR BOB SLEIGHS.—Abraham L. Smith, Marengo, Mich.
I claim the arrangement and combination of the two metal reach bars, C and D, with each other and with a pair of bob sleds, when such bars are constructed and connected substantially in the manner and for the purposes herein set forth.

67,143.—EXTENSION GATE.—C. S. Snead, Louisville, Ky.
I claim the peculiar construction of the gate, as herein described, to allow the expansion or contraction, the application of the intermediate washer, C, to prevent the rubbing of bars, the slots, D, to allow the extension and limit the same, and the foot roller, E, to prevent the sagging of the gate.

67,144.—MACHINE FOR APPLYING AND MEASURING FORCES.—H. T. Starnard, Wayne, Mich.
1st, I claim the frame, F, F', in triple form, as described.
2d, I claim the combination of the double lever, C, C', with the frame, F, F', as specified, to obtain a triple bearing for the fulcrum pin, whereby securing greater strength.
3d, I claim in combination the arms, N and R, index wheel, h, pointers, 3 and 4, scale, o, o, cham or cord, 5 and 6, spring, 7, all combined and operating as specified.

67,145.—MODE OF PRESERVING DEAD BODIES.—Colin Cree St. Clair, Washington, D. C.
1st, I claim the preserving of dead bodies by encasing them in liquid cement compositions which harden by drying, substantially as and for the purpose described.
2d, The composition described composed of one part plaster of Paris with two parts of hydraulic cement, substantially as and for the purpose specified.
3d, The use of the glass plate, D, and the tube, E, in connection with the encasing of bodies in the composition or cement, substantially as and for the purpose described.

67,146.—WINDOW BLIND FASTENING.—Theophilus Stover, Cambridgeport, Mass.
1st, I claim the construction of two latches, a, a', upon the spring plate, b, for the purpose of being received and held by notched catches, substantially as described.
2d, The pin, E, constructed with a head, b', and shoulder or gage, b, upon it for the purpose of being used in combination with a latch spring, B, and suitable catching devices in the construction of a window fastening, as set forth.
3d, The back shoulder abutments upon the catches when the same are raised higher than the forward shoulders and prevent the latches passing too far back, as herein set forth.
4th, A reversible blind catch, D, which is adapted for being driven into vertical or horizontal joints between the brick of a wall, substantially as I have explained.
5th, The combination of lifting rod, g, and double catch or latch studs, a, a', with a spring, B, which is applied to the bottom edge of a window and blind sustained by a pin, E, substantially as described.

67,147.—COTTON PRESS.—Edward Stuart, Shufordville, Miss.
I claim the combination of the peculiar construction of cogs and eccentric wheel so as to prevent cogs from breaking with great pressure, as described in the specification.

67,148.—POTATO DIGGER.—John M. Wilcox, Albany, N. Y.
I claim the revolving apparatus, t, and standing knives, v, in combination with the plow or scoop, f, and separator, w, substantially as and for the purposes set forth.

I also claim the reciprocating fingers, l, actuated in the manner specified, in combination with the separator, w, and plow, f, as set forth.

67,149.—WASHING MACHINE.—Reuben B. Will, New Market, Va., assignor to Wesley H. Colton, Sheandoah County, Va.
1st, I claim the construction of a washing machine consisting of a drum, D, and a studded arm, e, arranged within a semicircular wash box having a concave bottom, B, substantially as described.
2d, The centrally arranged rib, d, in combination with the removable covers, B, and the concave wash box having vibrating heating arms applied within it, substantially as described and for the purposes described.

67,150.—MELODEON.—Granville Wood, Detroit, Mich.
I claim the employment of an air chamber, C, over the reeds, F, F', when the reeds are placed and arranged therein in such a manner that they do not receive the currents of air admitted by the swell direct, but changed in direction and equalized in force, substantially as and for the purposes herein specified.

67,151.—RULES FOR CALCULATING TIME AND MEASURES.—David W. Wright (assignor to Thos. L. Wright), New York City.
I claim the combination of the above described slide, a, having upon it initial day letters and otherwise marked and numbered, substantially as above specified, with stationary part of said scale constructed, marked, and divided substantially as above described.

67,152.—CULTIVATOR AND SEED SOWER.—Henry Zurbrick, Elizabethtown, Ohio.
1st, I claim the hopper, H, hinged to the bed piece, I, the bed piece, I, hinged to the frame, J, and the frame, J, adjustably bolted or pinned to frame, A, as and for the purpose herein specified.
2d, The arrangement of the lever, L, and its connections with the frame, J, for the purpose of elevating its rear, and throwing the seeding apparatus out of gear, substantially as specified.
3d, The arrangement of the snanks, P, with the covering device attached to the same and with the adjustable frame, J, as and for the purpose specified.

67,153.—BABY JUMPER AND CRADLE.—Robert Ashe, Somerville, Mass., assignor to himself and George W. Eldredge.
I claim the combination of the brace, A, the seat or cradle, B, and the rods, C, with their springs, a, when the latter are arranged and secured at such a distance apart as to prevent the seat or cradle from tipping to one side, substantially as set forth.
I also claim in combination with the above, making the springs, a, adjustable so that the rods can be advanced or withdrawn in order to increase or diminish their power of resistance, substantially as described for the purpose set forth.
I also claim making the front portion, 5, of the cradle removable so that the remaining portion may be used as a chair or seat, substantially as set forth.

67,154.—CONSTRUCTION OF FIRE-PROOF SAFES.—H. H. Bryant, Boston, Mass.
1st, I claim the combination with the inner and outer walls or cases of a safe or other structure of a similar nature, of water, or liquid, vessels or tanks located between the said walls or case, under an arrangement substantially as herein described.
2d, The combination with the cases, a and d, of the removable water or liquid tanks or vessels, and flanges or supports by which the same are held in position in the space intervening between said cases, as and for the purposes described.
3d, In a safe or other similar structure as herein specified, I claim the construction and arrangement of one or more slides of the outer wall or case, so that the same may be readily removed without injury to the said structure, as and for the purpose shown and set forth.

REISSUES.

2,692.—CAR SEAT AND COUCH.—Horatio Allen, New York City. Patented June 12, 1866.
1st, I claim the combination with the floor and sides of a railroad passenger car of couches of a rhomboid form, placed diagonally to the length of the car, as herein described, and constructed of two seat pieces, A, A', two corner pieces, B, B', and two central posts, F, F', and supported by frames and legs, as herein described, or convertible into a pair of seats, by putting out of the way the corner pieces, E, E', and securing in a vertical position the center pieces, F, F', by the cap pieces, G, said pair of seats having a relative position diagonal to the length of the car, all substantially in the manner and for the purpose herein described.
2d, I claim the combination with the seat herein described, and uses of a railroad passenger car, of a rhomboid form, placed diagonally to the length of the car as herein described, and constructed of a frame supported as herein described, all substantially in the manner and for the purpose herein described.
3d, I claim the diagonal combination and construction of the two seats in the pairs of passenger seats in railroad cars, substantially in the manner and for the purpose herein described.

2,693.—HARVESTERS.—Thomas Brett, Geneva, Ohio. Patented Nov. 17, 1863.
1st, I claim so arranging the seat of harvesters that it may have a lateral movement upon a suitable frame or ways, in combination with one or more springs acting in concert with said seat for the purpose specified.
2d, The frame, A, attached to the harvester, in combination with the plate, B, and spring, D, D, all arranged to operate in the manner substantially as and for the purpose herein set forth.

2,694.—HORSE RAKE.—Adam R. Reese, Phillipsburg, N. J., assignee of Nathan Martz. Patented Feb. 26, 1856.
1st, I claim the combination in a two-wheeled wire-tooth horse rake of a rock shaft to support the rake teeth, located between the wheels and within their periphery, with a foot lever and a hand lever to raise and lower the teeth, and a seat to support the driver while operating the levers.
2d, Supporting the upper ends of the wire teeth of a two-wheeled horse rake on a rock shaft being convertible into a pair of seats, by putting out of the way the periphery of the wheels.
3d, In combination with a two-wheeled horse rake having a stationary axle, a support for the teeth located within the periphery of the wheels, a seat for the driver, and a hand lever and a foot lever by which to raise or lower the teeth.
4th, The combination with the rake teeth of two bars arranged within the periphery of the wheels and parallel to each other (one to sustain the teeth against backward strain, while the other keeps them the proper distance apart), a lever to raise or lower the teeth, and a driver's seat from which the lever is operated.
5th, In combination with a two-wheeled wire-tooth horse rake, the support for the teeth located within the periphery of the wheels, to raise or lower the teeth, the seat for the driver from which the lever is operated, and the spring, S', arranged and operating substantially as described, to assist in holding the teeth to the ground.
6th, In combination with a two-wheeled wire-tooth horse rake, a driver's seat, a hand lever by which the driver while in his seat can raise or lower the teeth, and a rock shaft independent of the axle to support the teeth, each being located between the wheels and within their periphery.
7th, In combination with a two-wheeled wire-tooth horse rake, having the upper end of the teeth attached to a rock shaft located between the wheels and within their periphery, a driver's seat and foot lever to raise or lower the teeth.

2,695.—SAW.—E. M. Boynton, Grand Rapids, Mich., assignee of Alfred Boynton. Patented Nov. 27, 1866.

I claim a saw provided with the cutting teeth, A, and the clearing teeth, B, constructed and arranged substantially as described.

2,696.—CAR BRAKE.—J. A. Goewey and D. S. Wood, Albany, N. Y., and Joseph Jones, West Albany, N. Y., assignees of Wm. D. Goodnow by mesne assignments. Patented Oct. 18, 1864.
1st, We claim connecting the brake cars, F, F', to horizontal guide bars affixed to the truck, substantially as and for the purposes set forth.
2d, In combination with the horizontal guide bars, k, k, the spiral springs, H, to repel the brakes from the face of the wheels, substantially as set forth.
3d, Also in combination with the plank or cross frame, E, the truck body, and the brake cars, F, F', the guide and safety rods, k, k, arranged and operating substantially as and for the purposes set forth.
4th, Also the combination of the brake bars, F, F', levers, G, G', connecting bar, N, springs, H, H, and chains, m, o, with the truck wheels, B, B, arranged and operating substantially in the manner and for the purposes shown and described.

2,697.—FAGOT FOR RAILWAY RAIL.—Wm. Lewis, John Price, and Francis Naylor, Danville, Pa. Patented July 19, 1864.
1st, We claim the corrugated steel slabs or form pieces, A, A', for fagots for railroad rails.
2d, We also claim forming the piles for the manufacture of steel-faced rails by the combination of iron bars with facing slabs of cast steel provided with intermediate projections on their inner surfaces, for the purpose of facilitating the welding of the steel to the iron, substantially as set forth.

2,698.—FIREPLACE.—John B. Ryan, Cincinnati, O., assignee of Calvin Dodge. Patented March 18, 1865.
1st, I claim the use of a deep recess or fire chamber placed back of the fire basket of the grate and out of the reach of the draft, in combination with the horizontal covering over the recess and fire basket of the grate and out of the reach of the draft, in combination with the horizontal covering over the recess and fire basket, extending down below the mouth of the chimney, constructed and arranged substantially as heretofore described, for the purpose of consuming the gas and causing the ignition of the gas (which would otherwise be lost) and thus increasing the amount of heat thrown into the room, and by the slow combustion of the fire effecting a great saving of fuel.
2d, The arrangement in a fireplace, above the grate, of a reverberating covering, t, extending forward from the rear wall of the fire chamber to a point below the breast of the chimney, and employed to retard the progress of combustion and direct the heat into the room, substantially as described.

2,699.—FIREPLACE HEATER.—H. H. Welch, Athens, Ohio. Patented Aug. 8, 1865.
I claim as a new article of manufacture the fireplace heater, A, constructed as herein described, that is to say, with the projections or corrugations, D, E, and pipes, B, C, for the purpose explained.

2,700.—MEAT CHOPPER.—Metropolitan Washing Machine Company, Middlefield Ct., assignees by mesne assignments of C. A. Foster. Patented June 5, 1866.
1st, I claim the combination in a meat chopping machine with a vibratory cutter or cutters having a descending and transverse stroke, of a tub and mechanism for rotating the same intermittently, i. e., during the intervals between the strokes or while the cutter or cutters are lifted or raised out of the tub, so that the said cutters and appendances may be bodily lifted out of the tub, and by the slow combustion of the fire effecting a great saving of fuel.
2d, In a meat chopper frame composed of two parts united by a hinge joint as described, the combination with the movable part thereof of the vibratory cutters and such appendances of the machine as overhang or are held within the tub, so that the said cutters and appendances may be bodily lifted out of the tub, as and for the purposes described.
4th, The combination with the stationary and movable frames of the locking device.

DESIGNS.

2,709.—MIRROR FRAME.—Russell Frisbie (assignor to E. Stevens & Co.), Cromwell, Ct.
2,710.—CASTER COVERING.—W. J. Howard, Petersburg, Ky.
2,711.—PLATES OF A STOVE.—Wm. L. McDowell, Philadelphia, Pa.
2,712.—OIL CAN.—Charles Pratt, New York City.

PATENT OFFICE DECISION—METHOD OF NUMBERING COUPONS, ETC.

ELISHA FOOTE for the Board.

The numbers of the coupon attached to government bonds have heretofore been printed on some part of the face of the coupons, and when such coupons have been stolen it was easy to change the number by adding a figure or perhaps by taking off one from some part that did not disturb the engraving. The improvement consists in putting not only the numbers on the face but also on the back of the instrument, and making the figures comprising the latter of such size as to cover the whole engraving on the back. By this device no figure can be added, for there is no room for it; no one can be abstracted for it would leave a vacant space; and none can be changed without defacing the engraving beneath it; and it is believed that a means of preventing a source of extensive frauds upon the public has thus been provided.

In engraving for bank bills such size and form have heretofore been given to the figures denoting the denomination that they could not be changed without destroying the bill, and in some cases the figures have been made to extend over the whole face of the bill, and the Examiner has regarded these as being in effect the same device and as anticipating the applicant's invention.

The figures in the bill were a portion of the engraving and constituted a part of the design of the artist. And when the plate had been made thousands of bills of the same form could be printed from it. It was a somewhat different problem to make numbers that could not be counterfeited when they were to be stamped on an engraving already made, and each one upon the immense number of different coupons, was to be different. It is said that the engraved figures having been made to cover the whole bill, there was little or no invention in making stamped figures do the same. This objection has great force, and seemed to the Examiner to be insurmountable. But on the other hand the new device is one of great practical utility and public importance. It was not so manifest as to occur to any one else before the applicant conceived it, and immense quantities of these coupons have been numbered in other ways and the public sustained great losses in consequence. These considerations we think should determine the case in favor of the applicant. It often happens that inventions of great practical utility are made which being once produced seem to be entirely obvious; and we have sometimes to regret the results produced rather than the means that produced them, in judging of the sufficiency of an invention. While we are opposed, as strongly as any one, to patents for trifling and unimportant devices, at the same time, whenever a real improvement is seen, we believe that we act in accordance with the intent of patent laws and the spirit of judicial decisions in giving to it a favorable consideration. The Examiner's decision is reversed.

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manner of packing flour; table showing the number of pounds which constitute a bushel, as established by law in the States therein named; the duty of the miller; pearl barley or pot barley; the art of distillation; of the importance of drafting and planing mills; cogs; the best time for seasoning and cutting them; the framing of mill work; windmills; a table of the weights of the best instructions for baking; receipt for making rabbit meat, etc.; cement; solders; table showing the price of a bushel of wheat of different weights and qualities, as ascertained from experiments in grinding parcels; of saw mills and their management; the circular saw; rules for calculating the speed of stones and other pieces or parts of the machinery run at; to find the quantity, in bushels, a hopper will contain; table of dry measure; spouts—the necessity of making them large; to lay off any required angle; of masonry; of artificer's work; of bricklayer's work; bricks and laths—dimensions; timber measure; table—diameter in inches of saw logs reduced to each board measure; of the wedge; of pumps; the screw; table showing the power of man or horse as applied to machinery; measure of solidity; rules for calculating liquids; a table showing the capacity of cisterns, wells, etc., in ale gallons and hogsheads, in proportion to their diameter and depths. Steel—Of various degrees of heat required in the manufacture of steel; composition for welding cast steel; directions for making and sharpening mill picks; a composition for tempering cast steel mill picks; governors for flouring mills; the governor or regulator; the pulley; of the velocity of wheels, pulleys, drums, etc.; on friction; table of circumference and area of circles, in feet, suitable for fly wheels, etc.; to calculate the effects of a lever and weight upon the safety valve of a steam boiler, etc.; of the slide valve; boilers; chimneys; explosion of boilers; on the construction of mill dams, rock dam; frame dams; brush or log dam; gates; description of water wheels of non-elasticity and fluidity in impinging bodies; motion of overshoot wheels; the breast wheel; overshot or breast wheels; table of the number of inches of water necessary to drive one run of stones, with all the requisite machinery for grist and saw mills, under heads of water from four to thirty feet; table containing the weight of columns of water, each one foot in length, and of various diameters; the undershot wheel; the breast wheel; the flutter wheel; the laws of motion and rest; power of gravity, percussion, or impulse, with the reaction attachment; table of the velocities of the combination reaction water wheel per minute, from heads of from four to thirty feet; tables to reckon the price of wheat from thirty cents to two dollars per bushel.

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