

damper, c, piston, H, fire-pipes, I and f, substantially as and for the purpose set forth.

72,690.—BELT-FASTENING.—George V. Sheffield and Byron Whitcomb, Worcester, Mass.
I claim, 1st, A belt-fastening, constructed substantially as shown and described.

2d, Making one half or a part of the shanks of the hooks, a, longer than the others, for the purposes stated.

72,691.—CLEANING COTTON.—Thomas Shapard, Haywood county, Tenn.
I claim the lint-room, as above described, made of slats, allowing the dust and dirt to escape, in lieu of the ordinary close lint-room, which does not allow the dust and dirt to escape.

72,692.—SASH LOCK.—Amos M. Smith, Chicago, Ill.
I claim, 1st, The combination of the litter, L, jaws, D, and levers, E, arranged and operating substantially as and for the purposes specified.

2d, In combination with the above, the arrangement of the bolt, H, operating as shown and described.

3d, The arrangement of the springs, h, in combination with said levers, E, and bolt, H, substantially as and operating as set forth.

72,693.—FENCE.—D. N. Smith, Salem, and E. F. Olds, Lyon, Mich.
We claim the continuous rider, G, as arranged, in combination with the braces, E, stakes, C, and rails, B, in the manner as and for the purpose set forth.

72,694.—HEATING POTTERY OVENS AND OTHER LIKE FURNACES.—Henry Speeler, Trenton, N. J.
I claim a steam-pipe, in combination with a "fire-mouth," for heating pottery ovens, kilns, and for other like ovens, substantially as described.

72,695.—PARASOL.—Cornelius St. John, Charlestown, Mass.
I claim, as a new or improved article of manufacture, and as my invention, the sun-shade, as composed of the stick, A, the corrugated paper body, B, and the metallic expander, C, made and arranged substantially in manner and so as to operate as described.

Also, the expander, C, made as explained, that is, of a single piece of wire, first bent in a circle, and next downward from the circle, at an acute angle to its plane, and afterwards in a helix, the whole being as shown in the drawings.

72,696.—GRAIN-SEPARATOR.—F. Swift, Hudson, Mich., assignor to himself and Horace Wilson.
I claim, 1st, The fan-shaft, C, provided with two sets of wings, secured on in different positions, and with a pulley between them, as and for the purpose set forth.

2d, In combination with the fan, as herein constructed, the shaft, J, band, H, pulleys, G, I, with springs, L, and bar, N, all constructed, arranged and operating substantially as specified.

72,697.—GASOLINE LOCOMOTIVE HEAD-LIGHT.—J. B. Terry, Hartford, Conn.
I claim, 1st, A locomotive head-light or lantern, consisting of the combination of a vessel to hold the gasoline or other similar hydrocarbon liquid with an internal or external heater to vaporize such liquid for the direct production therefrom of illuminating gas, as set forth.

2d, The combination, with a hydrocarbon liquid-holding vessel, provided with one or more burners, of an internal coil or surrounding jacket, admitting steam from a locomotive boiler to heat the liquid within the vessel, as shown and described.

3d, The combination, with the hydrocarbon vessel, of an elastic diaphragm and stopper or valve, operating in connection with the steam-admission pipe, substantially as described, so as to regulate the flow of steam and pressure in the vessel, as set forth.

4th, In an apparatus, substantially as described, the combination, with the hydrocarbon vessel, of wood shavings, or their equivalent, to prevent the splash or agitation of the liquid within the vessel, substantially as and for the purposes set forth.

72,698.—SPIRIT METER.—Isaac P. Tice, New York city.
I claim, 1st, A measuring-can, so constructed and operating as that, after the measuring-chamber has been filled with fluid, a surplus will so load the can as to cause it to tilt, an empty its contents, in such a manner as that the measured quantity or volume, and the surplus or unmeasured quantity, will be discharged into different receivers, substantially as specified.

2d, The combination of a measuring-can and weighing-can or cans, separate and distinct from each other, so that the several operations of these devices will give the specific gravity of the fluid by weight and measure.

3d, In a spirit-meter, the use of a plurality of weighing and measuring-cans, arranged and operating in such manner as that a fixed quantity of spirit, apart from the aggregate passing through the meter, is measured and weighed for the purpose of proof, substantially as specified.

4th, In combination with a measuring-can, an extra or separate weighing-can, for weighing the surplus or overflow not passed through the measuring-can, substantially as specified.

5th, The combination, with a primary receiver, A, of an overflow-pipe, or its equivalent, arranged to conduct the surplus supply from said receiver to the surplus weighing-can, or receiver connected therewith, essentially as herein set forth.

72,699.—SPIRIT METER.—Isaac P. Tice, New York city.
I claim, 1st, A measuring-can, provided with a discharging siphon or stop-ions, operating or having flow through them established by the tilting of the can, substantially as specified.

2d, A diaphragm measuring can, forming distinct measuring and surplus chambers, in combination with siphonic discharge pipes, essentially as shown and described.

3d, A diaphragm measuring-can, operating substantially as described, in combination with a weighing-can or device for ascertaining the proof by weight and quantity, as specified.

4th, Providing the measuring-can and weighing-can, or either, with air-dash pots or cushioning devices, essentially as herein set forth.

5th, The combination of the floats, F, F', and catches, H, H', or the equivalents of these devices, and tilting-hopper, C, with a measuring can, having a siphonic discharge, as herein specified.

72,700.—SPIRIT METER.—Isaac P. Tice, New York city.
I claim, 1st, The combination, in a spirit meter, of a weighing-can and can for determining volume, receiving in a given time or times an equal or proportionate supply with the weighing-can, for ascertaining the specific gravity of the fluid.

2d, The combination of a float or piston with the can-determining volume for a given weight, to actuate in any suitable manner a registering device, substantially as specified.

3d, Controlling the filling and discharge of the can, which determines volume for a given weight, by the action of the weighing-can, essentially as herein set forth.

4th, In combination with the devices for determining specific gravities, the hopper, A, divided as at b, and furnished with separate discharge pipes, D and E, substantially as specified.

5th, The combination of a weighing-can or device, volume-determining cylinder or can, H, with its piston, I, valve, L, operated by the weighing-can and gear, G, J, essentially as described.

72,701.—SPIRIT METER.—Isaac P. Tice, New York city.
I claim, 1st, The combination, with a spirit meter, or weighing and measuring-cans thereof, of a thermo-compensating device or attachment, operating automatically to control the quantity of the spirit weighed, or weighed and measured, in its passage through the meter, substantially as specified.

2d, Regulating, in an automatic manner, the action or discharge from the weighing-can of a spirit meter, by the varying specific gravity of the fluid, essentially as herein set forth.

3d, The combination, in a spirit meter, of devices automatically operating, by the varying specific gravity and temperature of the fluid passing through the meter, to regulate the action of the weighing-can, substantially as specified.

4th, The combination of the toe, l, on the weighing-can shaft, and rods, k, k, with a device operated by the temperature of the spirit, for adjustment of weight on said rods, to regulate the action of the weighing-can, substantially as specified.

5th, The toggle-link, I, rods, k, k, and toe, l, in combination with a float, operated by the specific gravity of the spirit, essentially as and for the purpose herein set forth.

72,702.—SPIRIT METER.—Isaac P. Tice, New York city.
I claim registering the specific gravity or strength of the spirit passing through the meter by means of weighing cans, so arranged and operating as that the overflow or surplus of the one can is weighed and recorded by the second, while the main contents of such first can are diverted from passing through the second or lower can, substantially as specified.

72,703.—COMBINED PLANTER AND CULTIVATOR.—John Vaughn, Colliery Grove, Tenn.
I claim, 1st, The triangular frame, t, bearing the small ploughs, p p, when used in connection with a cotton-cultivator, substantially in the manner and for the purposes set forth.

2d, The combination of the draw-beam, A, wings, B B, ploughs, p p, opening plough, S, frame, F, wheels, D D', shaft, C, seed-box, I, conductor, b, and covering plough, d, substantially as shown and described.

3d, The covering plough, d, when hinged loosely between two guides, g, g, so as to have a free vertical, but no lateral motion, substantially as described.

4th, The frame, F, when constructed, as shown, and operated, in connection with a cotton-planter and cultivator, substantially in the manner and for the purposes specified.

72,704.—EXTENSION BED-LOUNGE.—Charles F. Vollmer, Harrisburg, Pa.
I claim, 1st, An improved extension-lounge, formed by the combination of the following parts: An ordinary top, consisting of a seat, a, arm-rest, c, and back, b, firmly secured to each other; the extension, D, the extension arm-rest, or pillow, G, the base, B, having bottom, a', and the automatic closing and opening cutters, e, to hold the frame to the wings, B, when used in connection with a cotton-planter and cultivator, substantially in the manner and for the purposes specified.

72,705.—MACHINE FOR MAKING PAPER COLLARS.—Oscar F. Washburn, Bridgewater, Vt.
I claim, 1st, A collar-former, die for cutting out a collar, when provided with an embossing device situated within the cutting edge of the die, substantially as described.

2d, A collar-former die for cutting out a collar, when provided with an embossing device and an indentation for folding a collar, substantially as described.

3d, A collar-former die for cutting out collars, when provided with an embossing device and indentations for button-holing, substantially as described.

4th, A collar-former die for cutting out a collar, when provided with an indentation or crease for folding, substantially as described.

5th, A movable platen, in combination with a collar-former die, having inside its cutting edge an embossing device, substantially as described.

6th, A movable platen provided with cutters, in combination with a collar-former die, having an embossing device and indentations for button-holing, all operating together substantially as described.

7th, A collar-former die, having an embossing device, a crease for folding, and indentations for button-holing, in combination with a movable platen provided with cutters, and operating substantially as described.

8th, A roller-feeding mechanism, and a collar-cutting and embossing mechanism, substantially as described, in combination.

9th, A roller-feeding mechanism, and a collar-cutting and embossing and a button-holing mechanism, such as described, in combination.

10th, A roller-feeding mechanism, a collar-cutting and embossing, a button-holing and a folding mechanism, substantially as described in combination.

11th, A roller-feeding mechanism, a collar-cutting and folding mechanism, substantially as described, in combination.

12th, The combination of geared feeding-rollers, E, with toothed arm, J, and lever, O, constructed and operating as and for the purpose described.

13th, The combination of shaft, F, gears, K, M, R, L, M, 2, movable platen, I, slide, N, and folding-knife, H, substantially as and for the purpose described.

14th, The machine herein described, when constructed, combined, and operating to cut, emboss, button-hole, and create a collar to be folded at a single operation or revolution of the main shaft, all as set forth.

72,706.—SPOON BLANK.—Le Roy S. White, Waterbury, Conn.
I claim the spoon blanks, of such form and so cut or stamped out of the bar or plate without intervening scrap, substantially as specified.

72,707.—STEAM ENGINE SLIDE VALVE.—Charles Whittier, Roxbury, Mass., assignor to "Union Steam Valve Company."
I claim the arrangement of the balance slide valves, in relation to the steam chest and cylinder, as and for the purpose set forth.

72,708.—SLED BRAKE.—J. W. Wight, Chicago, Ill.

I claim the brakes, C, in combination with a sled, A, when constructed and operating substantially as and for the purposes herein specified.

72,709.—BREAD CUTTER.—G. D. Williams, Chicopee, Mass.
I claim the device consisting of the shelf, A, guide-frame, C, knife, B, and adjustable bar, F, combined and arranged substantially as and for the purpose shown.

72,710.—ABDOMINAL SUPPORTER.—Wm. M. Young, M. D., Trempealeau county, Wis.
I claim the form or shape of the abdominal plate, and the form and construction of the body band.

REISSUES.

36,503, dated September 23, 1862; reissue 2,819.—SKATE.—Phineas Smith, New York city, assignee of Oliver G. Brady.
I claim, 1st, In skates, the side clamps, J, F, arranged near the toe of the skate, and the tightening means, L, adapted to draw the same forcibly together, all combined and arranged as and for the purposes herein set forth.

2d, Also, in skates, the set screws, K, K, arranged as specified, in combination with the tightening means, L, and side clamps, J, J, so as not only to allow the side clamps to be drawn forcibly together, to seize the bolt, L, but also to allow the foot to be adjusted either centrally upon the skate, or to any extent one side or the other, to suit the wearer, and be held firmly against shaking in any position, all as and for the purposes herein set forth.

3d, Also, the arrangement of the Shank piece, D, and heel-piece, B, with the Shank of the boot, runner, A, and adjustable tightening hook, E, as herein shown and described.

68,398, dated September 3, 1867; reissue 2,820.—OVER-SHOE.—Henry G. Tyer, Andover, Mass.
I claim a boot or shoe constructed with an elastic gore or gores of vulcanizable material, where the said gore is inserted into the shoe before vulcanization, and during the process of vulcanization, and the whole completed by the vulcanization, substantially as set forth.

NOTE.—FIFTY-SEVEN patents in the above list were solicited through the Scientific American Patent Agency.

PENDING APPLICATIONS FOR REISSUES.

Application has been made to the Commissioner of Patents for the Reissue of the following Patents, with new claims as subjoined. Parties who desire to oppose the grant of any of these reissues should immediately address MUNN & Co., 37 Park Row, N. Y.

61,250.—MACHINE FOR SCOURING LEATHER.—Jas. Terwilliger, and others, assignees of Ira W. Fry and Edw. rd Fitzhewry, Portland, Oregon. Dated Jan. 15, 1867. Application for reissue received and filed Sept. 18, 1867.

1st, A mechanism by which by dually-arranged sets of rubbers or scrapers, L, on a machine for finishing leather, may alternately be brought into action by the reciprocating motion of a crank, sub-tantially in the manner set forth.

2d, In combination with the crank, N, and pitman, N', we claim the frame, A, pivoted, substantially in a manner and for the purpose set forth.

3d, The combination of the hinged arms, H, with or without the arms, I, with the spring, K, the parts being constructed and arranged for use, substantially as set forth.

4th, The spring, K, pivoted cross-pieces, K', and levers, O, in combination with hinged arms, H, I, substantially as set forth and for the purpose set forth.

5th, In combination with table, G, we claim the roller, E, adjustably supported by the rods, E, and cross bar, F, substantially as and for the purpose set forth.

6th, We also claim the combination of a reciprocating tool carriage to operate, and provided with leather and hide scouring, or finishing, or dressing tools, as described, with a movable table, tablet, or platform, so supported as to be capable of being moved in any direction in one plane unerringly such tool carriage and its tools, the same being to enable any and all parts of the upper surface of a side of leather, when on such table, tablet, or platform, to be readily brought into a position, or into positions, to be acted on by scouring or finishing tools, while with their carriage they may be in movement, as specified.

43,483.—WASHING MACHINE.—William M. Doty, New York city. Dated July 12, 1864. Application for reissue received and filed Dec. 18, 1867.

1st, The combination with the corrugated washing board and swinging brackets to which it is attached, of a lever or levers, to operate the same under the arrangement herein described, so that the said board may be oscillated horizontally, or back and forth, by a vibratory up and down movement of the levers.

2d, The combination of the oscillating washboard and swinging brackets with a removable hand lever or levers, operating in the manner substantially as herein shown and described.

3d, The combination, in swinging brackets, to which the corrugated washboard is attached, of sockets, or the mechanical equivalents thereof, for the ready insertion and removal of the operating lever, substantially as and for the purposes herein shown and described.

4th, The combination with an oscillatory washboard and stationary wash tub, of a hook and eye, or the mechanical equivalent thereof, for rendering the said washboard stationary within the tub at the pleasure of the operator.

NOTE.—The above claims for Reissue are now pending before the Patent Office and will not be officially passed upon until the expiration of 30 days from the date of filing the application. All persons who desire to oppose the grant of any of these claims should make immediate application. MUNN & CO., Solicitors of Patents, 37 Park Row, N. Y.

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