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24,708.—E. H. Angamar, of New Orleans, La., for an Improvement in the Mode of Staying Piles for Wharves, Piers, &c.:  
I claim, in combination with the piles, the frames, s s, and sleeves, a, and the braces, b, when made and arranged as or substantially as and for the purpose set forth.

24,709.—S. T. Bacon, of Boston, Mass., for an Improvement in Locks:  
I claim the construction of one or more pistons, or drivers, or both; also one or more holes in the rotating tumbler or surrounding cylinder, or both, substantially as and for the purpose specified.

24,710.—S. T. Bacon, of Boston, Mass., for an Improvement in Bank and Safe Locks:  
I claim, first, Arresting and holding the tumbler in an exact locked position.  
Second, Preventing the displacement of the tumbler, in the direction of unlocking by means of pins, l l l, in combination with the sliding bottom key-hole guard and the tenons.  
Third, Preventing the displacement of the tumbler at and beyond the locked position, by means of the slotted collar in combination with the cylinder, the tumbler and the tumbler pin.  
Fourth, Preventing the displacement of the tumbler inwardly, by means of the collar in combination with the cylinder and the bolt of the lock.  
Fifth, Enlarging the piston holes throughout the lock for the purpose specified.  
Sixth, Enlarging the holes in both tumbler and cylinder, in each direction from the dividing line between them for the purpose specified.  
Seventh, Constructing the key-hole guard of two or more pieces of metal hardened for the purpose specified.  
Eighth, Making one or more chambers between the several parts of the key-hole guard; for the purpose specified.  
Ninth, Dividing the air-chamber, or chambers, with one or more narrow ridges, for the purpose specified.

24,711.—Joseph M. Batchelor, of Foxcroft, Maine, for an Improvement in Lamps:  
I claim the arrangement and combination of adjustable tube, B, with the wick, L, button spindle, F, spur wheels, D J, and friction spring, H, or the equivalents thereof, as set forth.

[The stem of the button spindle has arranged on it in connection with the small spur-wheel usually employed for raising the wick, a larger spur-wheel gearing into a rack projecting from the side of the wick tube, so that the wick and tube can both be raised or lowered by turning the bottom spindle in exact relative distances to produce the proper amount of light required.]

24,712.—John T. Bever, of Haynesville, Mo., for an Improvement in Devices for Training Pea Vines:  
I claim the posts, B B, when forming a box as described, and combined with cords, g g, rope, f, and pegs, h h, the whole constructed and arranged in the manner and for the purposes set forth.

24,713.—D. E. Bishop, of New York City, for an Improvement in Railroad Chairs:  
I claim the formation of a bridge, A, in the center of the continuous lift, D, of a railroad chair, constituting a new article of manufacture, as described.

24,714.—J. L. Booth, of Cuyahoga Falls, Ohio, for an Improvement in Grain Separators:  
I claim the box, A, provided with an inclined bottom or flooring and adjustable strips, or valves arranged to operate, substantially as and for the purpose set forth.

[This invention relates to an auxiliary device to be applied to grain separators that separate grain by projecting it against the air, and is more especially designed to be used in connection with a grain separator that was patented by this inventor, March 8, 1859. In this patented machine the sound grain is separated from the light and inferior grain in consequence of projecting it by certain mechanism forcibly against the air; the sound grain, by its superior gravity, being projected further than the light. The object of the present invention is to receive the grain, both the sound and light portions, as it is projected from the machine, and to more fully separate and to collect it into distinct parts, and to graduate the separation as may be required.]

24,715.—J. Borton, of Middlebourne, Ohio, for an Improvement in Rat Traps:  
I claim the combination of the spring doors, D D, rods, O O, dog, d, and rod, r, when arranged substantially in the manner and for the purpose set forth.

24,716.—Chas. B. Bristol, of Naugatuck, Conn., for an Improved Combination of Flesh Fork and Skimmer:  
I claim, as a new article of manufacture, the combination of the fork and skimmer, when constructed, attached and fitted for use, substantially as described.

24,717.—J. H. Butler and P. G. Van Houten, of Cochocton, N. Y., for an Improved Mode of Operating Farm Gates:  
We claim actuating the traps, L L, by means of the weight, M, and cord, a, arranged in combination with the lever, F, or its equivalent, for operating automatic gates, substantially in the manner and for the purposes shown and described.  
We also claim the construction and operation of the double-acting latch, in combination with an automatic gate for carriages, substantially in the manner and for the purpose set forth.

24,718.—Ansel Cain, of Holyoke, Mass., for an Improvement in Walking Canes:  
I claim the combination of the lamp, constructed and arranged in the manner described with the walking cane, for the purpose set forth.

24,719.—J. H. Case, of Lyons, N. Y., for an Improvement in Hanging the Bodies of Vehicles:  
I claim the combination of the metallic springs with thorough braces, substantially in the manner and for the purpose set forth.  
I also claim the combination and arrangement of the combined through braces, a b, with the circular body, E, and supplementary spring, G, substantially as and for the purpose described.

24,720.—Matthew Chambers, of New York City, for an Improvement in Skirt Supporters:  
I claim combining with and securing to a corset-band extending in the rear, or in the rear and front downwards from the waist, to clasp the body around the hips of the wearer, the framework of a skirt or bustle, when said framework is composed of hoops disconnected and fastened in front, or thereabouts, substantially as described and for the purposes set forth.

24,721.—Denison Chesebro, of Syracuse, N. Y., for an Improved Mode of Telegraphing from Railroad Cars while Moving:  
I claim the combination of a sufficient number of pendants, arranged as described, and each having a movable vertical tongue, as described, and so constructed as to admit of a telegraph wire being attached to each of them in the particular manner specified with the metallic plates, wood scannings, or equivalent, and conducting internal wires attached to the roof of a railroad car, the whole being constructed, operated and operating in the manner described and for the purposes set forth.

24,722.—Wm. A. Clark, of Bethany, Conn., for an Improved Device for Fastening Cutters of Hollow Angers:  
I claim the angle wedge, e, in combination with the cutters, face plate, screws, c, and ledges, H, substantially as described and for the purposes set forth.

24,723.—David Cook, of New Haven, Conn., for an Improved Fruit Basket:  
I claim making a metal bound wooden fruit basket, either plain or ornamental, when constructed and fitted for use, substantially as described.

24,724.—John Davis, of New Bedford, Mass., for an Improved Mode of Connecting the Ends of Railway Bars:  
I claim, first, Connecting the rails of railroads in continuous chains with hinge joints in any practical mode.  
Second, I claim securing the rails in the couplings, by inserting wedges longitudinally under the rails, and clinching their margins.  
Third, I claim wedge, m, in Fig. 2, to secure wedge, D 3, in Fig. 3, and vice versa, by means of the hinge joint, or bolt, C, in Fig. 1.

24,725.—Perry Davis, of Providence, R. I., for an Improvement in the Wheels of Buggy Boats:  
I claim arranging paddles upon the spokes of the wheels of a buggy boat, so that the wheels perform the twofold purpose of paddle-wheels and carriage-wheels, substantially in the manner and for the purposes set forth.

24,726.—W. C. Ellis and J. N. White, of Springfield, Mass., for an Improvement in Revolving Fire-arms:  
We claim the projection, C, at the bottom of the chambers of the cylinders on which the fulminate of the cartridge rests, and is struck by the hammer in the discharge.  
We also claim the flange, B, of the cartridge parallel with the barrel, the two in combination, for the purpose specified.

24,727.—L. C. England, of Oswego, N. Y., for an Improvement in Apparatus for Tanning:  
I claim, in combination with the leach-vat and the conveyer trough, the pair of rollers to crack the wet bark, before it is delivered into the leach vat, substantially as set forth.

24,728.—Daniel Fitzgerald, of New York City, for a Fireman's Ladder:  
I claim, first, Suspending a ladder upon the standard, E, so that it may be elevated and turned in any direction, constructed and arranged substantially as described.  
Second, The arrangement of the branch pipes, C, with the stop-cocks, K, for use, at various heights, as described.  
Third, I also claim making the main-pipe, B, serve as a hand-rail to the ladder, and to give it stiffness, by setting it up a little above and parallel to it, as described.

24,729.—W. A. Foster, of Chester, Conn., for an Improved Method of Hanging Pictures, Looking-glasses, &c.:  
I claim adjusting picture frames, or mirrors, to different positions and at different angles, by means of a central hinge and levers, substantially as described for the purposes set forth.

24,730.—M. J. Gallagher and Wm. H. Gladding, of Savannah, Ga., for an Improvement in Breech-loading Fire-arms:  
We claim forming the chamber in the barrel and breech of the gun of the shape of two frustrums of cones, or of a frustrum of a cone, and a section of a parabolic spindle, whose bases meet at or near the line of the joint between said barrel and breech, for the purpose of containing a cartridge case of the form, substantially as represented.

24,731.—Joseph Gasser, of Toledo, Ohio, for an Improved Clothes Frame:  
I claim the arrangement of the braces, D, and arms, E, in connection with the standard, A, and legs, C, substantially as set forth.

24,732.—David Glover, of Cass township, Pa., for an Improved Dumping Car:  
I claim the construction of a revolving tip placed upon a movable frame or truck, the side pieces of which form, at a certain stage of the operation, a continuation of the main track or foundation, by means of which the wagon or car can be taken, without handling, from the main track or foundation, with the load, moved to the place required, and there dumped in any direction, substantially as and for the purposes set forth.

[This invention consists in a movable truck, which has the upper side timbers of its frame constructed to form a continuation of the railroad track when the loaded car is being run from the track on to the truck, and in combination with this the invention consists in having the truck constructed with a turn table, so that after the truck has received the loaded car, and carried it to the dumping-off point, it may be turned round so as to dump the load in any direction desired. This is a very useful and perfect arrangement for use at mines and on railroad embankments.]

24,733.—Freeman Godfrey, of Grand Rapids, Mich., for an Improved Shingle Machine:  
I claim the cam, G G, gearing into rack bars, F F, attached one to each end of the carriage, E, said cams being fitted in a yielding or adjustable center-poised frame, I, and operated from the power lever, D, through the medium of the pawl, O, ratchet, M, and gearing, L m, substantially as and for the purpose set forth.

[This invention relates to an improvement in that class of shingle machines in which a reciprocating knife is used for riving the shingle from the bolt. The invention consists in a novel means employed for feeding the bolt to the knife, whereby a simple automatic and positive feed movement is obtained.]

24,734.—Wm. Goodale, of Clinton, Mass., for an Improved Machine for Making Paper Bags:  
I claim, first, Making the cutter which cuts the paper from the roll or piece of the form herein described, that, in cutting off the paper, it also cuts it to the required form to fold into a bag without further cutting out.  
Second, The attachment of the former, F, directly to the cutter to operate in combination therewith, and with a folding table, C, substantially as described.  
Third, The described mode of applying and arranging the paster, f, to operate in combination with the folding table, C, and former, F.  
Fourth, The construction of the side-lappers with angular ends, e e, substantially as described, for the purpose of partly folding the side of the bag.  
Fifth, The knock-off, I, operating in combination with the former, substantially as and for the purpose described.  
Sixth, The vibrating frame, J, with its rollers, i i, operating in combination with the former and the knock-off, substantially as and for the purpose described.  
Seventh, The arrangement of the table, the cutter, the former, the side-lappers, the bottom paster, the knock-off, and the vibrating frame, J, to operate in relation to and in combination with each other, substantially as described.

24,735.—Darwin A. Greene, of New York City, administrator of Elias Davis, deceased, late of New York aforesaid, for an Improved Machine for Splitting Fire-wood:  
I claim the slabbing knife, a, and splitting knives, b c d e f, as secured to one cross-head, O, acting simultaneously at the forward movement of the latter, substantially as described and for the purpose set forth.

24,736.—Tobias Grodžinski, of New York City, for an Improvement in Dry Gas Meters:  
I claim attaching each pair of the plates, B B', or their substantial equivalents, to the flexible part, C, of the diaphragms of dry gas meters, by overlapping parts of the one upon the other, substantially in the manner and for the purpose set forth and described.

24,737.—Geo. Hensel, of New York City, for an Improvement in Sewing Machines:  
I claim the construction of the disk, W, with an elastic plate, R, attached and operated by means of a cam, in the manner and for the purpose substantially as set forth.

24,738.—S. Emilius Hewes, of Albany, N. Y., for an Improvement in Stoves:  
I claim a revolving fire-pot, arranged to traverse perpendicularly or to be raised and lowered, substantially as described, for the purpose of supplying air to and shutting it from the openings in the sides of the fire-pot, so as to effect a ready and perfect combustion and consumption of the fuel.

24,739.—H. J. Holmes, of Warren, Mass., for an Improved Clothes-frame:  
I claim a series of vertical frames, one of which has permanently affixed to it a foot-piece, A, and cap, B, when said cap and foot-pieces form suitable bearings for other frames, arranged and operating as and for the purpose set forth.

[A series of clothes-frames for drying clothes are combined together, so that each frame will have independent bearings in two segmental pieces, which form the foot and cap pieces, and so that, when the frames are closed or shut together, there will be a great economy of space.]

24,740.—John P. Hughes, of Spout Spring, Va., for an Improvement in Water-wheels:  
I claim making the water arms in sections, essentially as described, for the purpose set forth.

24,741.—Anthony Iske, of Lancaster, Pa., for an Improved Dumping Wagon:  
I claim the drop-door, D, with its lever, E, the partitioned box, A, with its rack-bar, c, on the bottom, the handled spindle, E K, for moving the same, as specified, when the several parts are combined as and for the purpose set forth.

24,742.—John W. Kennedy and John F. Plummer, of Plainfield, Conn., for an Improvement in Machines for Dressing Mill-stones:  
We claim the arrangement and combination of the arbor, Q, forked arm, S, spring, T, shaft, U, ratchet and pawl, V W, wiper, N, bar, A, movable case, G, shaft, K, and adjustable plate, O, as and for the purpose shown and described.

[An engraving and full description of this invention will be published in a few weeks.]

24,743.—J. Kurtzman, of Lancaster, Pa., for an Improved Head-block for Saw-mills:  
I claim the sliding rack-bar placed longitudinally in the carriage, A, and adjusted therein by the wedges, e e, in connection with the gearing, H I F, whereby the two sides, C C, may, by a suitable adjustment of the wedges, be actuated both simultaneously and separately as may be desired.

[This invention consists in a novel arrangement of gearing for actuating the slides to which the dogs are attached, whereby both blocks may, by actuating a single lever, be moved or adjusted simultaneously, and the log set bodily to the saw and parallelly with its cutter's plane when "stuff" of equal thickness is to be sawed, or set obliquely with the cutting plane of the saw when "stuff" of taper form is to be sawed.]

24,744.—Wm. Lance, of Olney, Ill., for an Improved Method of Constructing Mallets:  
I claim the manner of their construction and arrangement, as shown and described, for the uses and purposes set forth.

24,745.—John K. Leedy, of Woodstock, Va., for an Improvement in Bee-hives:  
I claim, first, The boxes, e, constructed and arranged in the manner and for the purpose specified.  
Second, I claim, in combination with the boxes, e, the pipes, E E and a b c, and their faucets, all arranged in the manner and for the purpose set forth.

24,746.—Robt. H. Long, of Philadelphia, Pa., for an Improved Salinometer:  
I claim the means of drawing into a vessel water from a steam-boiler as a means to facilitate testing the density of the water in the same, constructed and arranged for the purpose substantially as set forth.

24,747.—A. G. Mack, of Rochester, N. Y., for an Improved Life-preserving Raft:  
I claim surrounding a cask or chamber, A, with conical floats, B, arranged radially with said chamber and hinged crests, and covering the cone with canvas, or other suitable material, and bracing the whole together by a rope, suitably arranged, all substantially in the manner and for the purposes specified.

[A cylindrical chamber, which is made water-tight, is surrounded with a number of radial floats hinged to the central chamber at determined points and braced by cords, so that the whole raft can be folded up like an umbrella when not in use, and the raft is covered with canvas, or similar material, to form a platform when the raft floats.]

24,748.—John Masury, of Brooklyn, N. Y., for an Improvement in Paint Cans, &c.:  
I claim the construction of a metallic can for hermetically sealing

paints and other substances, having attached thereto a rim or ring of thin brass, or other soft metal, in such a manner that the top or cover may be removed by severing the said rim or ring of brass, or other soft metal, with a penknife or other sharp instrument, in the manner and for the purposes described and represented, or its equivalent.

[An engraving and description of this invention will be published next week.]

27,749.—A. A. McMahan, of Oxford, Miss., for an Improvement in Earth-boring Augers:

I claim bracing the two ends of the spiral portion of the auger by means of the central rod, E, substantially in the manner and for the purposes described.

I also claim the manner of securing the boring tools, F G, rod, H, to the spiral, D, by which they may be removed and replaced without making any changes on the spiral, D, substantially in the manner and for the purposes described.

24,750.—Anton Menge, of Point a la Hache, La., for an Improved Dredging Machine:

I claim, first, The bucket frame, B, when resting upon adjustable casters or friction rollers, and operated so as to be swung from right to left of the boat upon a circular track, B, in combination with the oscillating shaft, C, all arranged and operating, substantially in the manner and for the purposes set forth.

Second, I claim the buckets, F, having a hinged back, T, arranged and operating for the purposes specified.

24,751.—F. O. More, of Bellefontaine, Ohio, for an Improvement in Preserve Cans:

I claim the peculiarly formed cap, B, in combination with the curved spring lip, E.

24,752.—Z. N. Morrel, of Cameron, Tex., for an Improved Portable Oven:

I claim forming the pin on the handle on the cover of a Dutch-oven or skillet, in combination with the tube under the center of the frying pan or gridiron, substantially as and for the purposes set forth.

24,753.—Chas. Neer, of Albany, N. Y., for an Improved Dynamometer:

I claim the combination of the rigid arm or arms, c, and yielding incline or inclines, d, with the loose pulley, a, or its equivalent, whereby the power exerted to rotate the shaft, a, is denoted by the motion resulting from the pressure against said yielding incline or inclines, for the purpose of forming a rotary dynamometer, substantially as specified.

I also claim the revolving and sliding cone, b, adjusted in its position according to the power applied from the pulley, a, to the shaft, b, when combined with a registering apparatus, substantially as set forth, to record the amount of power made use of, as described.

24,754.—Charity Pendleton, of Galena, Ill., for an Improved Washing Machine:

I claim, first, The combination of the two horizontal bars or rails, J and M, having a circular reciprocating motion, with the fixed corrugated cylindrical surface forming the bottom of the machine, and having its axis co-incident with the axis of motion of the said bars, J and M, the parts being constructed and arranged as heretofore described, and operating so as to produce the effect previously stated.

Second, The combination of the slot or mouth, K, in the arm, D, and the tenon, I P, at the ends of the corrugated rubbing bar, M, with the perforated bar, J, by which the portion of the said corrugated rubbing bar, M, may be altered with respect to the bottom of the machine, so as to increase or diminish its distance therefrom, substantially as set forth, and without altering the position of the bar, J.

Third, The combination of the corrugations on the lower surface of the rubbing bar, M, with similar corrugations on the bottom or concave of the machine, but so arranged that the direction of the two sets of corrugations will be at right angles to each other, as fully described, and for the purpose set forth.

24,755.—Peter Philip, of Ghent, N. Y., for an Improved Method of Operating Windlasses when Applied to Hay-presses, &c.:

I claim, first, Attaching the wheel or table, C, to the capstan, A, so as to be operated upon by the loose or boom-sweep, B, as a brake, for the purpose of stopping the press at any point of descent, while being filled, and of regulating and controlling the motion of the capstan in the uncil.

Second, Providing the capstan, A, with the arms, e e', and the loose or boom-sweep, B, in combination with the check lever, D, substantially in the manner and for the purpose set forth.

24,756.—Daniel Quimby, of Littleton, N. H., for an Improved Machine for Boring Hubs:

I claim the shaft, A, the boss, B, placed on said shaft, and provided with a conical bore, d, and having the collar, B, and arms, G, attached, the screw rod, C, connected with the collar, B, by the gear, n o, and providing with the divided nut, D, attached to the upright, f, the whole being arranged to operate substantially as and for the purpose set forth.

I further claim, in combination with the parts above-named, the convex projection, m, placed on the shaft, A, to operate as and for the purpose specified.

[This invention consists in the employment of an adjustable rotating clamp, stationary cutter and feed screw, so combined and arranged that hubs may be bored in taper form to receive their boxes, and the machine rendered capable of being adjusted to bore hubs of varying size, and with holes of greater or less taper as may be desired.]

24,757.—P. D. Richards and E. N. Thayer, of New Orleans, La., for an Improved Pocket Register of Count:

We claim the construction and arrangement of a hand-operating tally, specifically as described, consisting of three indexes and corresponding wheels to indicate count, as specified, the whole being operated by a projecting stud, G, and spring brake, I, with its gage, S, for the purpose set forth.

24,758.—John Richardson, of New York City, for an Improvement in Pen and Pencil Cases:

I claim the arrangement of the spiral grooved sleeves and their connection with the pen-holder and pencil, and also with the outer shell of the case, substantially as described, for the purpose as set forth.

24,759.—John Robertson, of Brooklyn, N. Y., for an Improved Hydrostatic Lifting Jack:

I claim the employment of the exterior movable hydraulic cylinder, E, with toe-piece upon its surface, in combination with the standard, B, which serves also as piston and eduction pipe, as and for the purpose shown and described.

24,760.—Wm. G. Russell, of Winchester, Va., for an Improved Self-detaching Whistle-tree:

I claim a swingle or whistle-tree, provided with a lever turn bar, e e e f g h h, as shown in Fig. 3, together with the spring clasp, o c, Figs. 1, 4, 5, and the hinged or jointed hooking ferrules, K K L L, which are constructed and arranged substantially as set forth and described.

24,761.—Silas T. Savage, of Albany, N. Y., for an Improvement in Coal Sieves:

I claim the employment of the two half-globes, A and B, in which there are interstices, c c c, as a coal sifter, when said half-globes are provided with grooves, b b, tongues, a a, and shoulders, x x, the same being used in connection with a box or cylinder, by means of which the two portions of the globe are prevented from moving endwise of the trunnions and are prevented from separating, substantially as set forth.

24,762.—T. W. Schmidt, of Philadelphia, Pa., for an Improved Sawing Machine:

I claim the combined arrangement of the stationary frame, A, fitted with the adjustable holders, d e and n, as described, and the saw-carriage, B, operated by the crank, o, shaft, f, spur wheels, l, shaft, m, and rope or chain, as set forth and described, whilst the saw, k, is at the same time rotated through the media of the gear-wheel, i and g, pulley, h and i, and band, 7, arranged and combined as set forth and described, the said stationary frame, A, and the said moving saw-carriage, B, operating together as and for the purpose set forth and described.

24,763.—Cornelius R. Shaeffer, of Gettysburgh, Pa., for an Improved Machine for Making Hand-rails for Stairs:

I claim the combination of the perpendicular square post erected upon the base, A, with the draught-board, B, pitch-boards, B and G, rod, C, and arm, D, the several parts being arranged substantially as and for the purpose set forth.

24,764.—Reuben Shaler, of New Haven, Conn., for an Improved Confectionary Safe:

I claim the confectionary safe above described, constructed substantially as specified, as a new and useful article of manufacture.

24,765.—Geo. F. Shaw, of Woburn, Mass., for an Improvement in Corn-huskers:

I claim the combination and arrangement of the cylinder, A, and concave roller, C, substantially as set forth and for the purposes described.

24,766.—Christian Shunk, of Canton, Ohio, for an Improvement in Refining Iron:

I claim the use of the external crucible or hearth having the tweezer pipe, C, the projecting stone, D, and the escape pipe, E, constructed as described, operating in such a manner that the blast shall deflect from the side of the upright stone and produce a rotary movement in the melted metal for the purpose of refining the same, as specified.

24,767.—Joseph [Siddall], of Philadelphia, Pa., for an Improvement in Threshing Machines:

I claim the combination of flails, F, roller, E, slides, C, and straps, g, when said flails are constructed with the flexible joints, J, the arrangement and operation being substantially as and for the purpose set forth.

24,768.—Michael Tromly, of Mount Vernon, Ind., for an Improved Lock for Fire-arms:

I claim, first, The combination of the hooks, G2 I, or their equivalents, respectively formed on the claw, G', of the link, G, and the trigger, K, substantially as described.

Second, I also claim widening the upper end of the trigger, K, so as to form a projection, K1, in front, whose lower curved edge shall operate on the curved surface of the claw, G', in the manner and for the purpose set forth.

24,769.—J. L. G. Ward, of Adrian, Mich., for an Improvement in Artificial Stone:

I claim a cement composed of pumice-stone, silicate of soda, fluor spar and Roman cement, as set forth.

24,770.—Oliver N. Weaver, of Dover, Ky., for an Improvement in Preserving Cans:

I claim the perforated elastic plug, D, secured in the top of a provision can, in the described combination, with a nozzle, E, and tube, F, communicating with an exhausting chamber, substantially as set forth.

24,771.—Loren Wetmore, of Tioga county, Pa., for an Improved Trap for Animals:

I claim the peculiar construction and arrangement of the manifold trap, substantially as set forth.

Second, I claim the arrangement of the trip, C, provided with a fulcrum or fulcrum, c, guide pin, e, and arched wire, D, for operating the trap, substantially as set forth.

24,772.—James Wilson, Chas. Green and Wm. Wilson, Jr., of Wilmington, Del., for an Improvement in Attaching the Heads of Metallic Powder-kegs, &c.:

We claim the double seaming of both heads of the keg and the opening in one head, in the manner substantially as described.

24,773.—Arcalous Wyckoff, of Elmira, N. Y., for an Improved Hollow Auger:

I claim combining the transverse auxiliary cutters, d d, with the prime cutters, a, and elliptical opening of the annular cutter-head, as described, substantially as and for the purpose set forth.

24,774.—Peter Altmair (assignor to himself and Myron M. Faxon), of Lewiston, Pa., for an Improvement in Breech-loading Fire-arms:

I claim, in combination with a fixed breech-piece, a hinged barrel, so arranged as that the said barrel shall swing upward and expose the chamber of the breech-piece, below the rear end of the barrel, for inserting the charge, substantially as described and represented.

24,775.—R. M. Campbell, of East Cambridge, Mass., assignor to himself and Benj. S. Wright, of Boston, Mass., for an Improved Money-drawer Alarm:

I claim the combination and arrangement of the two levers, F G, and the spring latch, E, with the clock-alarm apparatus, D, the striker, a, and bell, b, and the combination of the same and a series of perforated key slides and a set of T-bars applied together and to such levers so as to actuate the same, substantially as specified.

I also claim the combination and arrangement of the T-bars and the perforated key slides, to operate in manner as described.

I also claim, in combination with the key lock, M, and the T-bar, I, a latching apparatus placed in the case, K, and constructed so as to lock both the cover and the T-bar, or either, substantially as specified.

I also claim the combination of the detector or indicator with the case cover and the T-bar, H, and operated in manner as specified.

24,776.—Saml. Green, of Lambertville, N. J., assignor to himself and W. R. Green, of Philadelphia, Pa., for an Improved Safety Apparatus for City Railroad Cars:

I claim the swinging frame, C, in connection with the bolt, l, and cover, v, the brake blocks, D, in connection with the chains, r r, and rods, t t, and the stationary supporting piece, u, the same or their equivalents being arranged, applied and operated substantially in the manner and for the purpose set forth and described.

24,777.—Samuel B. Guernsey, of Waterbury, Conn., assignor to W. H. Reed and G. W. Zeigler, of New York City, for an Improvement in Clasps for Skirt Hoops:

I claim connecting the hoops with the straps, or equivalents thereof, for connecting and suspending them by means of plates bent to embrace the hoops, and formed with two slots or apertures, through which the straps or equivalents pass, thus clamping the straps or equivalents to the hoops, substantially as described.

And I also claim the employment of the metal clasps, constructed as above described, in combination with and as a means of connecting the ends of the hoops, substantially as described.

24,778.—Moses Hall, Jr. (assignor to himself and S. H. Judy), of Osborn, Ohio, for an Improvement in Cattle Gates for Railroads:

I claim constructing a cable guard or gate, with its cross-bar or shaft below the rail of the railroad track, and operated by springs, substantially as described.

24,779.—Robert Law, of Lockport, N. Y., assignor to himself and P. T. Dix, of Olcott, N. Y., for an Improvement in Apparatus for Packing Fruit:

I claim the V-shaped or wedge-acting yoke, C, provided with fulcrum pins, h h, and the hooked recesses, g g, in the upper ends of the bent clamping levers, A A, arranged and acting in combination with the screw, D, fulcrum link, B, and claws, f f, or their equivalents, substantially in the manner and for the purpose specified.

24,780.—Sidney Parker (assignor to himself and Hugh Herringshaw), of New York City, for an Improvement in Sewing Machines:

I claim the combination of the hook, I, and the feeding arc, H, in the manner and for the purpose substantially as set forth.

I also claim the method of adjusting the feed, by means of the combination of the spring piece, G, and the feeding arc, H, in the manner described.

24,781.—John Paynter (assignor to himself and John McCorkle), of Shelbyville, Ind., for an Improvement in Sugar Mills:

I claim the combination and arrangement of the journal, C, wheel, D, gearing, E F G and H, and rollers, I J and K, the whole being suspended in a frame, A, and constructed and operated substantially as described.

24,782.—Asa T. Ring, of Newton, Mass., assignor to N. T. Spear and A. J. Robinson, of Boston and Milton, Mass., respectively, for an Improved Device for Winding Skeins of Thread:

I claim the combination of the clamping spring, c, screw and guide pin or rod, t t l, with the tightening and supporting shank, e, and bobbin, h, when said parts are constructed and arranged in relation to each other substantially as and for the purpose specified and shown.

## RE-ISSUES.

754.—John M. Brunswick, of Cincinnati, Ohio, for an Improved Billiard-table Cushion. Patented Dec. 8, 1857:

I claim that order in the arrangement of the material composing a billiard table cushion which places the cork in the rear, the rubber in front of it, and the paper, leather and cloth, or the equivalents thereof, outside, in the manner and for the purpose set forth.

755.—L. Butler and R. Blake, of Waterford, N. Y., for an Improvement in Fire-engines. Patented Nov. 30, 1858:

We claim combining with the water way or channel, i, the air chamber, d, divided into two compartments by contraction, r, at or about one-half the height of said air chamber above the base or point of attachment to said water way, substantially in the manner and for the purpose set forth.

We claim, in combination with the hour-glass contraction of the air chamber, the ring enlargement, S, of the rockshaft, as set forth.

756.—Austin G. Day, of Seymour, Conn., for an Improvement in Cleansing Caoutchouc:

I claim the use of alkali or its equivalent for separating bark, sticks or other foreign bodies from crude caoutchouc and other vulcanizable gums, to prepare them for manufacturing.

757.—Austin G. Day, of Seymour, Conn., for an Improvement in Treatment of Crude Caoutchouc:

I claim charging the caoutchouc, or other like gum, with alkaline liquor or the equivalent, by means of the exhausting apparatus described and represented.

George H. Corliss, of Providence, R. I., for an Improvement in Cut-off and Working Valves of Steam-engines. Patented March 10, 1849:

I claim the method substantially as described of operating the slide-valves of steam-engines, by connecting the valves that open and close the ports at opposite ends of the cylinder with separate crank-wrists or their mechanical equivalents, so that from the motion thereof each valve, while its port is closed, shall move a less distance than it moves in opening and closing its port, while at the same time the two wrists by which the two valves are operated, have the same range of motion as described, whereby I am enabled to save much of the power heretofore expended in working the slide-valves of steam-engines, and by which also I am enabled to make a greater proportion of the movement of the valve available for effecting a free passage of the steam through the ports of the cylinder.

George H. Corliss, of Providence, R. I., for an Improvement in Cut-off and Working Valves of Steam-engines. Patented March 10, 1849:

I claim the combination of liberating valve-gear with valves which are moved parallel to their seats, and continue their closing motion after their ports are closed, and commence their opening motion before their ports open, substantially as described.

George H. Corliss, of Providence, R. I., for an Improvement in Cut-off and Working Valves for Steam-engines. Patented March 10, 1849:

I claim the combination, substantially as described, of an air-cushion with the liberating valve-gear of steam-engines.

George H. Corliss, of Providence, R. I., for an Improvement in Cut-off and Working Valves of Steam-engines. Patented March 10, 1849:

I claim the combination with the part of the valve gear that appertains to a liberated steam valve of an instrument moved by the power of the engine in such manner as to effect the closing of the liberated valve whenever the independent means provided for that purpose fail to act in time.

George H. Corliss, of Providence, R. I., for an Improvement in Cut-off and Working Valves of Steam-engines. Patented March 10, 1849:

I claim the combination of a helical cam with the opening and closing mechanism of the steam valve, substantially as described.

George H. Corliss, of Providence, R. I., for an Improvement in Cut-off and Working Valves of Steam-engines. Patented March 10, 1849:

I claim the method, substantially as described, of regulating the velocity of steam-engines by combining a regulator with a liberating valve-gear.

## Literary Notices.

THE COSMOPOLITAN ART JOURNAL, for June. Published at 548 Broadway, New York.

This excellent quarterly has, in its present number, a poor engraving of "The American Eagle guarding the Spirit of Washington," but the reading matter and wood-cuts redeem the number. A good article on Greek and Roman Mythology, and an admirable likeness and notice of Charles F. Briggs (one of the *securi igitur* of the New York press), are the characteristic features of this issue. This journal has great influence, and might, if it were more enthusiastic, do much for American art. We sincerely hope it will, for of all things in this country, our greatest want is pictures for "the millions."

THE DENTAL NEWSLETTER for July, 1859.—This able quarterly, edited by Dr. White and McCurdy, and published by them at 538 Arch-street, Philadelphia, is one of the best works on dental science in this country. The editorials are well written, and full of valuable hints to the dental surgeon, while the communications from various sources form a complete mirror of dental science.