



combination with the spring cap, C, to throw it back into position, to be a self-coupler.

Also the lever, D, when the same is used in combination with said hinge pin or bolt, A, and movable block, B, as set forth and described.

36,294.—Robert Hamilton, of Franklin, Ind., for Improved Portable Sugar Evaporator :

I claim giving such a shape to the furnace box, B, that it can be combined with the head of the evaporating pan, A, by means of the flange, F, and in such a manner that the said flange will prevent the incandescent fuel from being brought into direct contact with the said pan, whilst it will also prevent the flame from passing directly into the flues, G, all substantially as herein set forth.

When the evaporating pan, A, is supplied with the flange, F, and with the flues, G, I also claim combining the dampers, I and M, with the furnace box, B, substantially in the manner and for the purpose herein set forth.

36,295.—W. W. Hanes, of Covington, Ky., for Improvement in Explosive Projectiles for Ordnance :

I claim, first, Constructing projectiles for ordnance with an outside shell consisting of two parts screwed together, for the purpose and in the manner specified.

Second, I also claim an independent inside shell or charge chamber, with two or more nipples and percussion caps attached, for the purpose of securing greater safety in charging, and certainty of fire when in use, substantially as described.

Third, I further claim the cushion, C, for the purpose and in the manner specified.

Fourth, I claim the projections or ribs, E, E, with their corresponding grooves, for the purpose herein set forth.

Fifth, I claim the combination of an outside shell made in two parts, A, A, with an independent charge chamber, B, containing two or more nipples and percussion caps, with the projections or ribs, E, E, and cushion, C, substantially as described.

36,296.—G. L. Harris, of Mobile, Ala., and Samuel Harris, of Springfield, Mass., for Improvement in Sifting Machines :

We claim the inclined sifter, A, in combination with the triangular cam, E, and double-inclined agitator, K, in the manner and for the purpose substantially as described.

36,297.—J. K. Harris, of Allensville, Ind., for Improvement in Baling Presses :

I claim, first, The levers, J, J, and arms, N, N, in connection with a follower and beater, B, arranged to operate as and for the purpose herein set forth.

Second, The slides, O, O, connected with the arms, N, N, of the levers, J, J, in connection with the sliding bars, d, d, on the follower, B, all arranged substantially as and for the purpose herein set forth.

[This invention consists in combining a follower with a system of levers, all constructed and arranged in such a manner that the follower may be made to serve the double purpose of a follower and a beater, the follower in the last-named capacity filling the press box and compacting the material to be compressed therein, so as to be in proper condition for the subsequent pressing operation of the follower.]

36,298.—S. H. Hartman, of Pittsburgh, Pa., for Improvement in Machines for Punching Linch-Pin Holes and Cutting Off the Journals of Axles for Wagons, &c. :

I claim the combination of the clamps, the cutter and the punches, for holding, cutting off, and punching the linch-pin holes in the journals of wagon and other similar axles, the mechanism being constructed and operating substantially as herein described.

36,299.—S. H. Hartman, of Pittsburgh, Pa., for Improvement in Slide Valves for Steam Engines :

I claim, in combination with a valve open through the center, or with a lid made in two pieces, a groove or recess in one piece containing rubber packing, and a tongue or shoulder in or on the other piece, to bear against said rubber packing, for the purpose of making the sides of the valve steam tight, or nearly so, on opposite sides of the chest, as set forth.

36,300.—Josiah Hayden, of Haydenville, Mass., for Improvement in Water Elevators :

I claim, first, The curves, c, d, c, in combination with the straight rods, A, and hooks, b, embracing the curves, c, c, of another link, as and for the purpose specified.

Second, I claim the windlass wheel, W, in combination with a flat chain, constructed as herein described and for the purpose set forth.

36,301.—William Larrabee, of Clermont, Iowa, for Improvement in Grain Winnowers :

I claim the upright suction blast spout, A, in combination with the valves, F, H, arranged as shown, and the fan, D, as and for the purpose herein set forth.

I further claim the supplemental valves, K, K, adjustable hopper, M, and draught passage, e, when arranged and combined with the valves, F, H, as and for the purpose herein set forth.

[This invention consists in the employment or use of an upright spout, having a fan connected with it at its upper end, so as to cause or produce a suction blast therein; in connection with a series of valves arranged in such a manner with the spout as to produce lateral draught entrances, and insure a perfect separation of all light impurities from the grain, and also the perfect separation of wheat from oats, &c., &c.]

36,302.—Francis Murray, of Baltimore, Md., for Improvement in Stamp Heads for Crushing Ores :

I claim, first, In a stamp head, the working face of which is cast in a chill, and is capable of pleasure of being attached to or removed from an upper or main section, so constructing the same, by casting it around and upon a wrought-iron shank, that said shank shall serve as a coupling to unite the shoe to the upper section of the stamp head, and also be capable of being used thereafter to cast a new working face or shoe upon, substantially as described.

Second, In connection with a stamp head for crushing ores, I claim the use of a ductile metallic buffer or its equivalent, substantially in the manner and for the purpose described.

36,303.—H. W. Putnam, of Cleveland, Ohio, for Improved Mangle :

I claim the frame work, A, F, G, H, in combination with the rollers, B, B', finger gear, I, I, foot piece, K, claw and set screw, L, when these parts are constructed, arranged and operated, substantially as and for the purpose set forth.

36,304.—E. A. L. Roberts, of New York City, for Improved Thermometrical Steam Gage :

I claim a metallic gage, consisting of one or more fusible metals, in combination with the indicator or indicators, b, b, or their equivalent, so as to indicate by their position or motion, and either with or without an alarm, the temperature of a steam vessel, the whole constructed substantially as and for the purpose set forth.

36,305.—Harry Seymour, of Dartmoor, Great Britain, for Improved Artificial Fuel :

I claim the composition for an artificial fuel, made of the ingredients and in the manner and proportions herein set forth.

[This invention consists in the employment or use of petroleum in its natural or in a refined state, or of coal oil or allied manufactured substances, in combination with certain mineral substances, such as silica, alumina, lime, and oxygenated manganese, which are mixed with refuse vegetable matter, such as peat, earth, saw dust, tanner's bark, green roots, &c., for the purpose of obtaining a fuel which can be used everywhere in place of wood or coal. Mr. Seymour's address is 48 St. Francis Xavier street, Montreal, C. E.]

36,306.—Aaron Smith, of Brooklyn (E. D.), N. Y., for Improved Gas Regulator :

I claim combining the throttle or other balanced valve, E, and floating inverted cup, D, by the arrangement of passages, C, c, k, k, and crank connections, h, h, k, k, substantially as herein described.

[This invention consists in a certain arrangement of the passages provided between a throttle or other balanced valve, employed to regulate the flow of gas and the interior of an inverted cup, within which the pressure of the gas acts with a tendency to close the valve, and arrangement of the connections between the said valve and cup, where-

by a regulator of very simple construction is obtained, and which is very effective in its operation.]

36,307.—C. W. Smith, of Evans, N. Y., for Improved Washing Machine :

I claim the combination of the dasher, F, the bar, B, the standards, C, E, and the lever, D, arranged to be used in connection with an ordinary wash tub, substantially as described.

36,308.—P. A. Stecher, of New York City, for Improved Lamp Shade Holder :

I claim a lamp shade holder, A, constructed and applied, substantially as herein shown and described.

[The object of this invention is to produce a simple and cheap device for supporting shades on lamp chimneys. The invention consists in a holder made of a series of radial braces, the ends of which are bent in opposite directions, and which are connected and held in place by two or more rings, in such a manner that the same, when applied to a lamp chimney, rests with the upper ends of its braces on the bulb and its lower ends support the shade.]

36,309.—Alois Schweizer and George Jansen, of Cleveland, Ohio, for Improved Scrubbing Brush :

We claim as a new article of manufacture, a combined floor scrubber and wiper, when the several parts are constructed and arranged, substantially in the manner and for the purpose herein described.

36,310.—R. M. Stivers and G. W. V. Smith, of New York City, for Improvement in The "Fifth Wheel" of Carriages :

We claim the combination of the stay rod or spring brace, G, with the perch, A, front axle, C, and parts, a and b, the whole constructed and arranged in relation to each other, as and for the purpose set forth.

36,311.—A. E. Teal and William Ransom, of Cicero, Ind., for Improvement in Smut and Grain Cleaning Machines :

We claim, first, The valves, I, placed within cylinders, N, on the spouts, K, and regulated by springs and nuts, as shown, or their equivalents, in connection with the valves, L, M, and discharge openings, A, for the purpose specified.

Second, The tubular perforated shafts, J, D, of the beater, I, and fan, C, when said beater and fan are arranged in connection with the suction spouts, K, K, and blast spout, E, to operate as set forth.

[The object of this invention is to obtain a simple and efficient machine by which smut may be thoroughly broken and separated from the grain, and the latter deprived of all light impurities, and also separated from any chaff which may be in it.]

36,312.—Eli Thayer, of Worcester, Mass., for Improvement in Plane Angulometers :

I claim the pendulum moving upon three or more bearings in the same plane, and carrying upon its top a graduated arc, and its combination with the spherical surface, and the opening therein, substantially as set forth and described in the accompanying specifications and drawings, and for the purpose indicated.

36,313.—W. H. Towers, of New York City, for Improvement in Pins :

I claim a pin for securing clothing and other objects, made with a slight spherical or oval enlargement near the point, in the manner and for the purpose described.

36,314.—J. F. Townsend, of Cambridgeport, Mass., for Improvement in Spermatorrheal Rings :

I claim the instrument composed of the two bows, A, B, made with a rest, b, and joined together as described, the band, C, adjusting screw, e, set screw, a', and nuts, g, f, the whole combined as herein set forth.

36,315.—W. F. Warburton, of Philadelphia, Pa., for Improvement in Army and Navy Caps :

I claim the loose fold, b, with its elastic loops or their equivalents, in combination with the detachable cape, G, the whole being arranged substantially as set forth for the purpose specified.

36,316.—J. R. Whittemore, of Chicopee Falls, Mass., for Improvement in Hay or Feed Cutters :

I claim, first, The combination of the hopper, B, legs, C, C, and flanged mouth piece, e, constructed as herein described, whereby the mouth piece serves as a support for B and C, substantially in the manner and for the purpose as herein set forth.

Second, The combination of the cutter lever, E, bolt, h, and wedge, o, when constructed and operating substantially in the manner and for the purpose herein described.

36,317.—Jacob Wister, of Greencastle, Pa., for Improvement in Flour Bolts :

I claim the use of the slide rods or braces, D, extending from rib to rib, and carrying sliding balls or knockers, E, thus bracing the ribs, and at the same time bringing the action of the knockers chiefly upon the ribs and bolting cloth, substantially in the manner and for the purposes set forth.

36,318.—G. W. Woodworth, of Cleveland, Ohio, for Improvement in Water Elevators :

I claim the combination of the flat plates, A, and inverted arch or section of a circle, B, with the bars forming the perimeter which connects the forks, as above described.

36,319.—Edwin Bailey (assignor to himself and Henry Mc Shane), of Baltimore, Md., for Improvement in Cut Offs for Hydrants :

I claim the combination of the spring cut off, d, with the series of openings or perforations, a, for the purpose of gradually shutting off the through flow of water, to prevent jarring and breaking of pipes, substantially as described.

36,320.—R. H. Cunningham (assignor to W. P. Bliss), of Schaghticoke, N. Y., for Improvement in Cylinders for Polishing Gunpowder :

I claim, first, The arrangement and combination of the piece of leather, b, with the block of wood or metal, c, and strip, d, each being shaped to correspond to the inner surface of the cylinder, substantially as and for the purpose described.

Second, The arrangement of the stationary strip, d, let into the inner surface of the cylinder, in combination with the valve, B, as and for the purpose shown and specified.

36,321.—Samuel Mason (assignor to the Northfield Knife Company), of Northfield, Conn., for Improvement in Pocket Knives :

I claim, as an improved article of manufacture, a pocket knife having a handle of malleable cast iron with a rough or corrugated exterior, in imitation of buckhorn, as herein set forth.

[This invention consists in constructing the handle of the knife of malleable cast iron, and with a corrugated external surface in imitation of buckhorn, whereby a much more durable knife is obtained than any hitherto constructed, and one which may be manufactured at a less cost.]

36,322.—William Peters (assignor to himself and Alfred Buck), of Baltimore, Md., for Improvement in Covering Steam Boilers :

I claim covering steam boilers, pipes, cylinders, &c., with the sheets, plates, &c., of the composition herein named.

36,323.—C. D. Spears, of Lisbon, Maine, assignor to himself and F. Buckman, of Bowdoinham, Maine, for Improvement in Water Wheels :

I claim, first, The penstock, A, and the scroll, B, the latter being placed within the former and constructed of segments, b, arranged eccentrically with the wheel, C, as shown in combination with the wheel, C, and central discharge opening, f, all arranged as and for the purpose set forth.

Second, The buckets, e, attached to the arms, d, of the wheel, C, in an oblique position, as shown and described, when said wheel thus constructed is used in combination with the scroll, B, penstock, A, and central discharge opening, f, as herein specified.

[This invention relates to an improved water wheel of that class

which are placed on vertical shafts within a scroll or case fitted, and commonly termed horizontal wheels. The invention consists in the employment of a scroll or case provided with a plurality of water inductive passages, and fitted within a penstock; in connection with a wheel provided with oblique buckets and a central discharge opening, whereby it is believed that the water is made to act in a very advantageous manner upon the wheel, and a good percentage of the power thereof obtained.]

36,324.—J. M. Stiven (assignor to himself, M. Tuomey and John Elder, Jr.), of New York City, for Improved Boiler Feeders :

I claim the float, f, provided with the pipe, g, in combination with the supply pipe, e, and valve, i, the parts being fitted and acting in the manner and for the purposes specified.

36,325.—E. A. Turpin, of New York City, for Improvement in Breech Loading Ordnance :

I claim closing the breech of a piece of ordnance or other form of firearm by means of an axial plug, having a smooth cylindrical surface, and a conical end fitting a corresponding seat in the breech of the gun, the said plug being adapted to be turned upon its seat and held firmly in contact therewith by means of a tapering key or wedge, C, passing transversely through the breech and plug, all as herein shown and described for the purposes set forth.

[The peculiarity of this invention consists in fitting the breech plug in the breech of the gun, so that it may be turned around as it is inserted, so as to grind out any refuse left on the seat, and thus secure a close adaptation of the breech plug to the seat.]

36,326.—Isaac Winslow, of Philadelphia, Pa., assignor to J. W. Jones, of Portland, Maine, for Improvement in Preserving Vegetables in Hermetically Sealed Cans :

I claim preventing the bursting of hermetically sealed cans or other vessels, while they are exposed to heats for cooking or preserving their contents, by means of puncturing such cans or vessels when first heated, or otherwise giving vent to the contained air soon after heating, the cans or vessels being thereafter immediately resealed and the heat continued, substantially in the manner and for the purposes set forth.

36,327.—Stuart Perry, of Newport, N. Y., assignor to C. H. A. Carter, of New York City, for Improvement in Circuit Horsepowers :

I claim the combination of friction wheels and idlers, substantially in the manner and for the purpose herein described.

I also claim in combination with the friction wheels and idlers, the elastic pad, f, and nut, e, for regulating the pressure between the rolling contact surfaces, substantially as and for the purpose set forth.

RE-ISSUES.

1,331.—Chauncey Thomas and D. P. Nichols, of Roxbury, Mass., assignees of Chauncey Thomas, aforesaid. Letters Patent No. 18,254, Dated September 22, 1857, for Improvement in Carriage Props :

We claim the improved carriage prop as constructed with a screw or a loose shoulder cap, D, combined with a joint bar standard, A, and arranged between the leather, L, and the joint bars, G, H, all placed on the standard, or the latter passing through them and secured in position by the nut, I, substantially as described.

1,332.—D. G. Littlefield, of Albany, N. Y. (Letters Patent No. 133, Whole No. 1,237, Dated January 24, 1854. Reissued November 19, 1861.) for Improvement in Stoves :

I claim the illuminated exterior wall or cylinder, M, with openings, f, therein glazed with linglass or any transparent substance, or any equivalent therefor, in combination with a coal supply chamber and an intermediate chamber, G, wherein gas is consumed, at, or around the fire pot, or any appendage thereof, substantially as and for the purpose herein described and set forth.

1,333.—D. G. Littlefield, of Albany, N. Y. (Letters Patent No. 133, Whole No. 1,237, Dated January 24, 1854. Reissued November 19, 1861.) for Improvement in Stoves :

I claim the employment of a fire pot having a vertical fire grate around the same, forming a downward continuation of a coal supply pot, in combination with a gas consuming chamber between the outer case and the connected fire and coal supply pot, substantially as and for the purposes as herein described and set forth.

1,334.—D. J. Littlefield, of Albany, N. Y. (Letters Patent No. 132, Whole No. 1,236, Dated January 24, 1854. Reissued November 19, 1861.) for Improvement in Stoves :

I claim an organization which will permit the gases of the supply coal, and the gases of the incandescent coal to burn laterally below, and outside of the coal supply chamber, and entirely down to the grate, and thereafter circulate the spent gases or a portion of them, over the top of the coal supply chamber; and finally discharge them through a flue leading outside the room in which the stove is situated.

1,335.—D. G. Littlefield, of Albany, N. Y. (Letters Patent No. 132, Whole No. 1,236, Dated January 24, 1854. Reissued November 19, 1861.) for Improvement in Stoves :

I claim the combination of the fire pot, E, with the coal supply cylinder, F, immersed within the outer cylinder, M, which forms the chambers, G and G', substantially as and for the purpose herein described.

1,336.—Lewis Moore, of Ypsilanti, Mich. (formerly of Bart, Pa.) Letters Patent 224, Dated July 2, 1850. Reissued October 12, 1852, for Improvement in Seed Planters :

I claim, first, A seeding slide having apertures with sides oblique to the sides of corresponding apertures in the hopper bottom or plate, u, when combined with any suitable device to impart a reciprocating motion to the said slide, substantially as described.

Second, In combination with a hopper or seed box having a number of apertures for the discharge of seed, I claim a perforated seeding slide having a reciprocating motion transverse to the motion of the machine, and adjustable in extent for the purpose of varying the quantity of seed sown.

Third, The combination of the perforated vibrating lever, p, and pivoted rod, m, with a cam, f, and seeding slide, j, to vary the motion of the said rod, substantially as and for the purposes explained.

Fourth, Raising or lowering the drill teeth or hoes simultaneously by means of chains, a, a', or their equivalent, attached to the rear edge of a flat bar or board, X, hinged by its front edge to the frame, and provided with a lever, y, projecting backward from it, all substantially as herein shown and described.

Fifth, The combination of the hook or catch, b', flat bar or board, X, and lever, y, all constructed, arranged and employed in the manner and for the purposes set forth.

Sixth, Supporting the hopper or seed box upon the frame of the machine by means of brackets, b2 b2, straddling the beam, a2, so as to secure the hopper in position without fastenings, and permit its ready removal.

Seventh, Suspending the seeding slide beneath the hopper by means of loops, w, placed beneath the apertures, h, in the hopper bottom, substantially as and for the purposes set forth.

DESIGN.

1,653.—Salathiel Ellis, of Mautoville, Minn., for Design for a Medallion of President Lincoln.

THE TUTTLE COMET.—The comet now visible was discovered by H. P. Tuttle, of the Cambridge Observatory, and has, consequently received his name.

It has not been observed before. It passed its perihelion on the 22d of August, and is now becoming more dim, as it sweeps away into the cold and darkness of space.