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36,760.—Ethan Allen, of Worcester, Mass., for Improvement in Back Sight for Rifles :
I claim plate, A', and disk, B, constructed substantially as described and for the purpose set forth.

36,761.—C. H. Amidon, of Greenfield, Mass., for Improved Wringing Machine :
I claim, in combination with a turning shaft, G, that serves as a shaft and brace both, and the rising and falling crossbars, E, the arrangement of the cams, h, block, and spring, e, intermediately placed on said shaft and crossbar, for the purpose of making pressure on the upper roll, D, and allowing said roll to rise at either end without producing undue pressure at the other end, in the manner and for the purpose herein set forth and explained.

36,762.—C. M. Atkins, of Pottsville, Pa., for Improvement in the Construction of Railroad Cars :
I claim the cast-iron brackets, D, when applied to the inner surfaces of the angles or corners of the car bed or frame, and used in connection with the external straps or brackets, C, and bolts, a, for the purpose herein set forth.
[This invention is designed to strengthen the framing of railroad cars by causing the ends of the timbers, which comprise the car bed, to be secured much more firmly together than hitherto, so as to effectually prevent the springing out of the side and end pieces of the car bed.]

36,763.—George Bailey, of Buffalo, N. Y., for Improvement in Presses for Stamping Tickets, &c. :
I claim, first, The combination with the inking ribbon and pawls, of two shifting levers or other equivalent devices, so arranged in respect to the plate or arm to which said pawls are attached as to effect the shifting or reversing of the direction of travel of the inking ribbon, in the manner substantially as described herein.
Second, I claim, in combination with the stamp press and inking ribbon, a set of numbering or dating type wheels, arranged and operating substantially in the manner set forth.

36,764.—A. C. Bouk, of Clinton, Iowa, for Improved Mode of Rafting Logs and Timber :
I claim the application of booms to rafting logs and timber in any waters, so as to save the timber rafted from loss either by boring every log or by obstructions like bars and snags, by securing the timber rafted and transporting the same without diminishing either quality or quantity.

36,765.—L. D. Bunn, of Morristown, N. J., for Improvement in Corpse Preservers :
I claim the arrangement of the cooling board, C, with head-piece, a, in combination with the body chamber, A, ice-box, D, and air chamber, E, all constructed and operating substantially in the manner and for the purpose shown and described.

36,766.—G. W. Buss, of Boston, Mass., for Improvement in Wagons :
I claim, first, Supporting the wagon by means of the lever or levers and spring or springs, arranged with regard to each other and to the axle, substantially as described, so that the spring or springs shall be acted upon at such a point of the lever as receives comparatively the shortest play of motion, as set forth.
Second, In combination with the lever or levers, the crossbar, 11 or r, r, as described and for the purpose specified.
Third, In combination with the lever or levers, 11, and axle, c, c, the radial arms, f, f, the whole operating together as set forth.

36,767.—D. M. Cummings, of Enfield, N. H., for Improvement in Adjustable Hames :
I claim, first, The combination of the clasp, D, and its projections, b, b, with the face plate, E, and its indentations, a, a, a, constructed and operating as above set forth.
Second, The combination of the terret, C, with the clasp, D, as above described.
Third, The combination of the face plate, L, with the clasp, D, and the terret, C, constructed and operating as above set forth.

36,768.—J. C. Day, of Jersey City, N. J., for Improved Hammock Cot :
I claim the portable army hammock cot constructed and arranged substantially as described and shown.

36,769.—David Dick, of Meadville, Pa., for Improvement in Apparatus for Mineral Oils as Fuel :
I claim, first, The employment in a mineral oil furnace of pumice stone or other equivalent porous incombustible material, through which the oil flows, and upon the surface of which it is burned, substantially in the manner described, for the purposes set forth.
Second, The combination of a furnace in which mineral oils are employed as fuel, with a water space surrounding the same, substantially in the manner described for the purpose of preventing the overheating of the furnace, and the consequent generation of gas in the firebox, as set forth.
Third, The combination in a mineral oil furnace of a water chamber, a firebox, and a series of air flues, substantially in the manner and for the purposes described.
Fourth, The combination of an extinguisher plate with a firebox and air tubes, substantially as and for the purpose specified.
Fifth, Perforating the extinguisher plate, as described, for the purpose of permitting the escape of the gas, and preventing the entrance of air, as set forth.

36,770.—John Dickinson, of New York City, for Improvement in Apparatus for Dressing Mill Stones :
First, I claim the combination of the scroll cam wheel, I, the arm or lever, C, compensating arm, D, operating lever, U, and pawls, P and Q, for operating the scroll cam wheel, or equivalents of either of the said several parts in combination with the said scroll cam wheel, to produce the results hereinbefore set forth.
Second, I also claim the combination of the graduated scale, a2, and adjustable stop, b2, with the lever, U, and scroll cam wheel, I, for the purposes hereinbefore set forth.
Third, I also claim the use of the raised ledge, c2, on the upper side of a double guide-way parallel rule, for the purposes hereinbefore set forth.
Fourth, I also claim the use of the two strips of steel, f2, as a shield for the setting of the diamond in dressing mill stones in combination with the double guideway, d2, substantially as hereinbefore set forth.
Fifth, I also claim the use of the two ledges, g2, g2, raised on the lower surface of the double guide way, so as to form a channel for the shields, f2, to be adjusted in, in combination with the shields, f2, for the purposes hereinbefore set forth.

36,771.—Amber Edson, of Cambridge, Ill., for Improved Washing Machine :
I claim the slides, C, C, the handles, D, D, the pivoted arms, R, R, the lever, O, the stirrer, F, F, G, G, H, and I, in combination with the beveled pinion, K, and the beveled segment, L, as represented and for the purpose specified.

36,772.—Leonard Eggleston, of Battle Creek, Mich., for Improved Mode of Filling Bags with Grain :
I claim the combination of a movable hopper with the manner of

holding it in the required position, and the manner of attaching the bag to the hopper, substantially as set forth.

36,773.—A. H. Emery, of New York City, for Improvement in Projectiles for Rifled Ordnance :
I claim, first, The construction and use of a soft metallic point arranged with a sub-caliber projectile, substantially as and for the purpose herein described and set forth.
Second, The construction and use of the compound-metallic sabot, arranged with a sub-caliber projectile, substantially as and for the purposes herein described and set forth.

36,774.—Josiah Eveland, of Elizabeth City, N. J., for Improved Mode of Connecting Fellies of Wheels :
I claim having the sockets, C, C, provided respectively with a tapering dovetail tenon and a tapering dovetail recess, fitting and operating together in the manner herein shown and described, so as to form a firm but easily separable connection between the ends of the fellies and prevent all lateral and inward spreading or bending of the fellies ends, as set forth.

[The object of this invention is to obtain a coupling for connecting together the ends of wheel fellies, in such a manner that they will not be liable to be depressed or forced inward under the weight to which the wheels may be subjected when attached to the vehicle, and at the same time admit of being very readily applied to the fellies, form a firm connection and one capable of being adjusted with the greatest facility in order to form the connection.]

36,775.—Geo. B. and C. B. Garlinghouse, of Allonsville, Ind., for Improvement in Harvesters :
We claim, first, The conical or conoidal coupling hinge, K, K', L, L, and set screws, F, F', arranged and adapted to the cutting apparatus of a harvester in the manner and for the purposes set forth.
Second, The branched pitman, m, m', having conical or conoidal gudgeons, K, K', adjustable in the line of their common axis, with a sliding condition, in the cutter, by means of a screw, N, or its equivalent, substantially as set forth.

36,776.—J. T. Gilmore, of Barton, Ohio, for Improvement in Machinery for Training, Staffing and Fine-dressing of Mill Stones :
I claim, first, Specifically, the employment of the arm, S, with its dovetailed guide, T, and the socket slide and set screws, e, f and g, constructed and operating as and for the purpose set forth.
Second, I claim, in combination with the said arm, the shaft, W, with its crank plate, Y, beveled geared wheel, X', and set screw, U', the same being attached to and used in combination with the other parts of the machine, to wit, the slide, K, cross plate, G, dovetailed guide, H, screw shaft, I, nut O, beveled geared wheel, N, and crank plate, R; said several parts connecting with the circular pivot plate, F, claps, a, and c, sleeve, D, double flange, E, hollow journal, A, branch, B, set screws, w, cap plate, s, screw bolts, b, and lever nut, y, the whole constructed and operating as described and for the purpose specified.
Third, I claim the mode described for attaching the machine to the bed and runner stones by means of the branched straps and grappling arms, secured as described for the purpose set forth.
Fourth, I claim the employment of the small training and staffing block, i, with its shaft fitting into the socket slide, e, and adjusted and secured by the screws, i, and g, as described, and operating in combination with the horizontal movement of the arm, s, for the purpose specified.
Fifth, I claim the peculiar arrangement for using and controlling the diamond, in combination with the said arm, S, the parts constituting said arrangement being formed of the stock, j, diamond handle, i, pivoted to said stock at m, spring, u, hooked finger, o, lever, p, and handle, r, constructed and operating as set forth and for the purpose specified.
Sixth, I claim attaching the arm, S, with its dovetailed guide, T, socket slide, e, and screws, f, and g, to the circular plate, F, said plate having a series of ribs, as shown in Fig. 9, and using the same in combination with the sleeve, D, and hollow journal, A, as described and for the purpose stated.

36,777.—Benj. Gonzales, of Goodland, Ind., for Improved Chest and Table for Bread-making :
I claim the combination and arrangement of the several parts, comprising the method of opening and closing the flour chest, E, by lowering and raising the molding board, A, the relation of the flour chest, E, to the flour chest, B, and molding board, A, the relation of the side depositions, v, v, &c., to the flour chest, E, meal chest, B, and molding board, A, and the mode of attachment of meal chest, B, to flour chest, E, in the manner and for the purposes described.

36,778.—B. F. Gossin, of Cincinnati, Ohio, for Improvement in Machines for Making Joint Fastenings for Railroad Rails :
I claim, first, The arrangement of stationary bed and hardy, C, D, clamping guide, L, M, and simultaneously conveying dies, E, E', or devices substantially equivalent, the whole being combined and operating together, as set forth.
Second, I claim the yielding supports, K, for the temporary support of the blank, in the manner set forth.

36,779.—Sebre Howard, of Elyria, Ohio, for Improvement in Breech-loading Fire-arms :
I claim, first, Combining the barrel and the stock of my improved fire-arm with each other through the medium of the hollow breech-piece, B, which has an oblong opening in the side thereof for the temporary reception of a metallic cartridge; but this I only claim when the said breech-piece is driven forward into the chamber of the barrel of the fire-arm and is then provided with an unyielding recoil block by means of the tubular piston, E, and the levers, F and G, which are combined with each other and with the hollow breech-piece, D, substantially in the manner herein set forth.
Second, I also claim opening and closing the lateral aperture in the breech-piece of my improved breech-loader by means of the tubular piston, E, which fits accurately within the bore of the main compartment of said breech-piece, and is operated therein in a longitudinal direction, substantially in the manner herein set forth.
Third, I also claim operating the tubular piston, E, by means of the levers, F and G, in connection with the slot in the under side of the tubular portion of the breech piece, B, substantially in the manner herein set forth.
Fourth, I also claim the arrangement of the trigger, e, the bridge, d, the sear, c, and the sear spring, i, with each other and with the hammer rod, H, the mainspring, b, the tubular piston, E, and the levers, F and G, substantially in the manner and for the purpose herein set forth.
Fifth, I also claim the arrangement of the set trigger, g, and the sliding pin, y, with the sear, c, and the lever, F, substantially in the manner and for the purpose herein set forth.
Sixth, I also claim combining the barrel, C, with the breech-pin, B, by slipping a portion of the butt of the former within the mouth of the latter, and then securing said connection by means of the ears, x and w, the hinged loop, h, and the set screw, m, in the manner herein represented and described.
Seventh, I also claim combining toothed and movable valve-plug, g, with the head, O, of the tubular piston, E, and with the valve seat within the same, in such a manner that a slight degree of inward pressure upon said valve plug will produce a perfectly tight joint at that end of the said tubular piston, substantially as herein set forth.

36,780.—J. M. Grosh, of Shaefferstown, Pa., for Improvement in Harvesters :
I claim, first, The jointed sliding rake arm, applied and operating substantially as and for the purpose described.
Second, Widening the claws of the binding device between their axis and their inner curved edge, substantially as and for the purpose described.
Third, The arrangement of means specified for opening and closing the claws alternately, as set forth.

36,781.—Thomas Hunter, of New York City, for Improvement in Portable Shields for Riflemen :
I claim the portable folding armature, S, made of three or more shot-proof sections, A, B, C, connected by hinges, a, b, substantially as described, so that the same can be used as an armature, table or bedstead, in the manner specified.
And I also claim the application of the rest, F, in combination with the section, C, of the armature, S, as and for the purpose set forth.

[The object of this invention is to produce a shot-proof armature or shield, which is capable of being carried from place to place and put upon the desired spot with ease and convenience, and of protecting one or more riflemen, and affording a firm and convenient rest for their rifles while taking aim, said armature being constructed in such a manner that it can readily be folded up when it is designed to move

the same from place to place, and that it can be converted into a bedstead or table, as occasion may require.]

36,782.—Daniel Hussey, of Nashua, N. H., for Improvement in Bobbins :
I claim the double-coned bobbin or spool, made as described, and the formation of the mass of roving thereon, in the improved manner substantially as specified.

36,783.—Huchins, of Norwich, Conn., for Improved Camp Bed :
I claim the folding frame, a, in combination with the pillow, n, rod, h, and legs, d, g, arranged substantially in the manner and for the purpose set forth.

36,784.—J. H. Jones, of Dayton, Ohio, for Improvement in Separator and Smut Machines :
I claim, first, A scouring cylinder, which answers as a concave for a smut or grain cleaning machine, whose inner circumference is dressed with a screw or spiral scouring surface, substantially as and for the purpose set forth.
Second, The combination with such screw or spiral scouring surface, of a beater, C, C, whose blades, J, J, and wings, d, d, are arranged and operate in the manner and for the purpose substantially as described.
Third, The sieve and frame, J, J', so constructed and arranged on a smut or grain-cleaning machine, that the frame supports and acts as springs to the sieve, substantially in the manner and for the purpose set forth.
Fourth, The combination of the screw concave, the beater, the trunks, M, L, suction spout, H, H, fan, D, I, sieve, J, J', and shaft, B, E, F, the whole constructed, arranged and operating substantially as described.

36,785.—W. H. Jordan, of Roseville, Ind., for Improvement in Cultivators :
I claim the plows, J', when arranged so as to be simultaneously raised and lowered by the turning of the bars, I, G, connected by a rod or bar, J, as shown, in connection with the laterally adjustable frame, A, connected with the axle, E, and all arranged as and for the purpose set forth.

[This invention relates to a new and improved cultivator for plowing those crops which are grown in hills or drills, such as corn, potatoes, &c. The object of the invention is to obtain a cultivator with plows so arranged that they may be lifted from and adjusted in to the ground more readily than those hitherto devised, and also to have the draught pole so arranged that the line of draught may be changed at the will of the operator or attendant, and the machine thereby placed under the complete control of the farmer, so that he may readily guide the machine to conform to the sinuosities of the rows of plants, and also readily raise the plow above the surface of the ground in turning at the ends of rows.]

36,786.—John Laughlin, of Gettysburgh, Pa., for Improvement in Mode of Attaching and Detaching Whiffletrees :
I claim the arrangement of the spring bolts, E, E, the bent levers, F, F, the boxes, I, I, the straps, G, G, J, and the bar, H, constructed and operating in the manner and for the purpose herein specified.

36,787.—John Lees, of Racine, Wis., for Improvement in Churns :
I claim the construction and arrangement of the dashers, No. 2 No. 2, connecting rods, No. 3 No. 3, attached to driving wheel, No. 1, the whole constructed and operating substantially as hereinbefore set forth.

36,788.—C. McGinniss, of Chicago, Ill., for Improvement in Smut and Separator Machines :
I claim, first, In combination with the surrounding perforated internally ribbed cylinder, G, g, the angularly corrugated scourer, G, g', m, m', o, p, the whole constructed and operating substantially in the manner and for the purpose specified.
Second, Arming the scourer, G', and the vertical ribs, g, and upper head of the cylinder, G, with oval form projections, g', as described.
Third, Providing for the uniform distribution of the grain in its passage from the shoe, U, to the shoe, V, by means of inclined distributing channels or their equivalents, on the bottom of the shoe, U, substantially as described.
Fourth, The combination of the slotted adjusting rods, w, w, and hinges, u, u, substantially as and for the purpose described.
Fifth, The combination of the screening shoes, U and V, with the slotted adjusting rods, w, w, and hinges, u, u, the whole arranged and operating substantially in the manner and for the purpose described.

36,789.—John Platt and William Richardson, of Oldham, England, for Improvement in Cotton Gins :
We claim, first, The two alternately reciprocating blades, c, h, constructed and arranged to operate in combination with each other and with the roller, a, and breast, b, of the McCarthy cotton gin, in the manner and for the purposes herein shown and explained.
Second, The use of independently reciprocating instruments, substantially as herein described for opening the material preparatory to its presentation to the ginning mechanism, a, b, c.
Third, The transferring comb, u, v, constructed as described, and employed to present the material in tufts to the ginning mechanism, a, b, c, substantially as and for the purposes set forth.
Fourth, The elastic or yielding connecting rod, o, p, q, employed to operate the comb, u, v, substantially in the manner described.

36,790.—N. W. Northrup, of Greene, N. Y., for Improvement in Combined Car Wheel and Car Axles :
I claim the divided follower, D, set screw, C, on axles, B, in combination with the tight wheel, E, in the manner and for the purpose hereinbefore set forth.

36,791.—Glendy Moody, of Falmouth, Maine, for Improvement in Machines for Spreading and Turning Hay :
I claim, first, A reciprocating bar, M, with forks, L, pivoted to it, and operated by means of cranks or other equivalent eccentric movement, substantially as and for the purposes set forth.
Second, The combination of a carriage, A, with suitable actuating means, for the purpose of reciprocating the bar, M, which receive a united reciprocating motion from a series of cranks or other equivalent eccentric means, substantially as and for the purposes set forth.
Third, The cross bar, N, with its slots, j, and loops, i, or equivalent means, in combination with the uprights, g, g, for the purpose of adjusting the forks, L, substantially as described.
Fourth, The swiveling eyes, f, in combination with the bar, N, and pivoted forks, L, substantially as and for the purpose set forth.

36,792.—G. A. Poppy and C. H. Colegrove, of Rochester, Ohio, for Improvement in Water Elevators :
I claim the compound clutch and brake, G, in combination with the spring lever, L, weighted pawl, F', and pulley, C, when these parts are constructed, arranged and operated as and for the purpose herein set forth.

36,793.—N. B. Powers, of Lansingburgh, N. Y., for Improved Composition for Sizing for Use in the Manufacture of Floor Cloths, &c. :
I claim the employment or use of a sizing compound made of the within described ingredients mixed together in about the proportions specified.
[This invention consists in the employment as a sizing compound of a composition of blood and lime, either alone or in combination with other ingredients, to be applied to canvas used in the manufacture of floor oil cloths, or to other textile fabrics or paper.]

36,794.—N. B. Powers, of Lansingburgh, N. Y., for Improved Composition for Sizing and Steeping Floor Cloths, &c. :
I claim the employment or use of a sizing compound made of the ingredients herein specified, and mixed together in about the proportions set forth.
[This invention consists in the employment as a sizing compound of a mixture of blood and tannin, either alone or in combination with other ingredients, to be applied to textile fabrics, such as canvas used in the manufacture of floor oil cloths, or to any other textile fabric or paper.]

