

ISSUED FROM THE UNITED STATES PATENT OFFICE FOR THE WEEK ENDING AUGUST 14, 1860.

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•. Pamphlets giving full particulars of the mode of applying for patents, size of model required, and much other information use-ful to inventors, may be had gratis by addressing MUNN & CO., Publishers of the SCIENTIFIC AMERICAN, New York.

29,555.-J. P. Allen, of Dover, Ga., for an Improvement in Seed Planters: I claim the arrangement of the two halves of the hopper, g g, ad-justable bars, d d, oscillating ehaft, H, arm, I, rod, bar, K, and etraps, k k, as and for the purpose shown and described.

[This invention is more especially designed for planting cotton and other seeds, the discharge of which from the hopper or seed-box is attended with difficulty on account of lint being attached thereto, as in the case of cotton seed, or on account of an irregular form, or a viscid coating which some seeds possess.

718cid coating which some seeds possess.
29,556.—Wm. Bailey, of London Grove, Pa., for an Improved Machine for Bending Tires:
I claim the roller, F, when adjusted vertically through the medium of the frame E, and double inclined plane G, and the bridle. D, with its hooked legs, d, and screw, c, when they are arranged in respect to and in comhination with the continuous wheel, C, substantially as described and for the purpose specified.

29,557.—J. C. Baker, of Mechanicsburg, Ohio, for an Improvement in Fruit Jars:

I claim the peculiar conical form of the cap, C, with a depression in the apex for the pivot, e, and a groove around the base for the gasket, a, when employed in combination with the clamp, D, and in-clines, B B', as and for the purpose set forth.

29,558.-L. W. Baker, of Marlboro', Mass., for an Im-

29,558.—L. W. Baker, Of Mariboro, Mass., for an im-proved Bread-slicer: My improvement and what I claim consists not only in construct-ing the knife with the stud pins, b, made to project from its opposite sides, but in constructing the standard or carrier, B, of two vertical plates, d d, made with two curvel slots, cc, and an opening, e, lead-ing out of each, in the manner explained and represented.

29,559 .- J. G. Barker, of Watertown, Mass., for an

Improved Cheese-cutter: I claim the above-described cheese-cutter, having its knife, K, guided by the grooved rod, M, and operating in the manner substan-tially as described.

29,560.-P. M. Belton, of Brooklyn, N. Y., for an Im-

20,000.—r. M. Betton, of Brooklyn, N. Y., for an Improvement in Compounds used as Decolorizers: I claim the composition substantially as specified by combinin chalk, or its equivalent, with peat, so as to form, after carbonization sugarrefining, essentially as substitute for animal charcoal i sugarrefining, essentially as set forth and for other analogous pup poses or uses.

29, 561.—L. R. Blake, of Abington, Mass., for an Im-provement in the Manufacture of Boots and Shoes: I claim uniting the bottoms and vamps of boots or shoes with stitches made without passing the end and length of the unused thread with another, and extending through the said parts, substan-tially as shown and described.

uaily as snown and described.
39,562.—L. R. Blake, of Abington, Mass., for an Improvement in the Manufacture of Boots and Shoes:
I claim, as a new article of manufacture, a boots or shoe in which the bottoms and uppers are united with stitches made without passing the length and end of the unused thread through the parts united by interlocking one loop of the thread with another, and extending through the said parts.

29,563.-J. N. Bodine, of Bridgeton, N. J., for an Im-

23,003.—J. N. Bodine, of Bridgeton, N. J., for an Improvement in Bottles:
 I claim, first, A bottle constructed with vertical and short horizontal grooves on the interior of the neck, substantially as described for the purpose set forth.
 Second, The method of fastening the cork in the bottle, by means of vertical and horizontal grooves, in combination with an independent plug or block.

29,564.—J. P. Bond, of Greenwood, S. C., for an Improvement in Plows:
I claim the arrangement of the curved brace, G, beam, A, with its clevises, C C, stock, E, crossbar, D, and stilts, B B, as and for the purpose shown and described.
[The object of this invention is to construct the ordinary single shown in such a menner that it will not need the usual discon-

shovel plow in such a manner that it will not need the usual diagonal brace, which greatly obstructs the forward movement of the plow through the ground on account of its gathering weeds, grass, &c., and it will be firmly and rigidly braced, and secured against backward ssure.]

29,565.-S. G. Brett, of Newport, N. H., for an Im-

29,565.—S. G. Brett, of Newport, N. H., for an Improved Machine for Pointing Shoe Pegs: Iclaim, first, The elastic pressure rollers, G G, the fluted rollers, F F, or any equivalent substitute for the latter, and the angular or screw-like roller, X, in combination with the tool-stock, H, arranged and operating as set forth. Second, The improved tool stock, H, with two or more pointing tools, aa, running in the same groove, arranged as above set forth.

29, 566.-B. W. Bruel, of Beloit, Wis, for an Im-

29, 566.—B. W. Bruel, of Beloit, Wis, for an Improved Mop-holder: I claim the slotted hole and pin by which the jaws, B' B2are rendered self-adjusting, in combination with the bifurcated handle, A, and retaining clasp, the whole arranged and operating as described for the Durpose set forth.

29, 567.—L. D. Burch, of Sherburne, N. Y., for an Improvement in Plows:
I claim the combination and arrangement of arms, D, rodg, E, slotted cross-head, F, clevis, H. cord, L, or its equivalent, substantially as set forth, for the purpose shown and described.

29,568.—E. G. Burger, of Ypsilanti, Mich, for an Im-provement in Foot-scrapers: I claim the arrangement of the inclined plate, D, provided with plane and convex surfaces, b c, and the uprights, B B, having curved flanches, the above parts being used with or without the brushes, C, as and for the purpose set forth.

The object of this invention is to obtain a foot-soraper, by which the boot or shee may be more effectually cleaned than by the ordin-

ary scrapers, provision being made for thoroughly cleaning the sides of the sole and upper, as well as for cleaning the instep of the sole, and front part or side of the beel, portions which are generally slight-ed in consequence of the difficulty and in many cases impossibility of cleansing them by the ordinary scrapers.]

29,569.—Saml. Canterberry, of Holmes county, Miss., for an Improvement in Plows: I claim the arrangement of the beam, Z, helve, a, rod, e, bolts, c and 4, hands, f, bar, b, piece, h, and moldboard, g, the whole being constructed and combined in the manner and for the purposes set forth.

29,570.—Daniel S. Chase, of Augusta, Ga., for Im-proved Anti-friction Rollers for Propeller Shafts: I claim the combined use of the two sets of anti-friction rollers constructed substantially as described, one set on each side of the disk or collar of the shaft.

29,571.-W. H. Churchman, of Janesville, Wis. for an

29,571.—W. H. Churchman, of Janesville, Wis., for an Improvement in Furnaces for Heating Buildings: I claim, first, The combination and arrangement of the fire space with or without the grate, a, central flue, d, amoke damper, T, return flues, b, covering plates, v v v, openings in plates, x, and exit opening, a, with or without the T-pipe for returning the smoke to the chimney, substantially as described, whereby the heat is economized and diffused over the surfaces of the rarefiers, C c C'. Second, The arrangement of the hot air chambers, A, cold air-chambers, B, and connecting flues A', B', In the walls of the furnace with or without the stop dampers. M N O O', substantially as described, whereby all or any number of the rarefiers, C c C', may be connected at pleasure.
Third, The combination and arrangement, of the evaporating pans P, flues, R, and registered openings; 2, substantially as set forth, whereby any required degree of heat may be imparted to the start in the pans, and all of the warmend of the furnace.
Fourth, The combination and arrangement of the furnace.
Fourth, whereby any required degree of heat may be imparted to the start in the pans, and all of the warmend of the rarefiers, C c C', hoat rehambers, A, cold air-chambers, H, connecting flues, A' B', stop dampers, M N O d', substantially as described, whereby the warming and veniliating currents may be perfectly controlled as set forth.
29, 572.—P. S. Clinger, of Conestoga Center, Pa., for

29,572.—P. S. Clinger, of Conestoga Center, Pa., for an Improved Machine for Cutting Fodder: I claim the combination of the bar, K L, sliding chairs I, with their slotted semi-circular knives, H, square ended and slit screws, C C2, sliding table, D, in the cap, c, with its binding rod and screw, r, when combined as set forth for the purpose specified.

29, 573.-Richard Cranston and Henry Bates, of New London, Conn., for an Improvement in Projectiles for Fire-arms:

For FIFE-Arms: We claim the employment of the washer, e, in combination with the tube, C, or its equivalent, and chamber, d, so that the pitch, while in a plastic state, may be compressed around the fuse rope and the surplus pitch be allowed to escape, substantially as and for the purpose shown and described.

[This invention is an improved mode of fastening the fuse rope or quantity of the fuse rope in a chamber formed by a partition in the shell of the bomb and by the breech-nut, and of such a size that a quantity of the fuse may be coiled through and surrounded by pitch or some other resinous substance, which is squeezed down into the chamber, so as tokeep the coils of the fuse rope separate; and from this chamber the end of the fuse is presented in the proper central position by means of two washers, the inner one of which, together with a suitable gaging tube, serves to compress the pitch while it is in a plastic state; while the outer one, which is made of india-rubber or leather, serves to protect the inner washer against the influence of the fire from the gun.]

29,574.-J. S. Davis, of Tiffin, Ohio, for an Improved

Washing Machine: claim, first, The arrangement of the grooves, b, in the sider tub, A, and furnished with steps, c, in combination with wi or pawls, d, and ratchet teeth, e, substantially as described purpose of adjusting the washboard to the height of the op-

tor. Second, The arrangement of the adjustable washboard, B, with a roller surface, e', in combination with the reciprocating hinged rub-ber, D, being guided in its motions by grooves in the side flanges, f, of the washboard, and operating in the manner set forth. Third, The combination with the washboard, B, and reciprocating rubber, D, of a hook, F, constructed and operating substantially as and for the purpose specified.

[The object of this invention is to construct the washboard and the The object of this invention is to construct the washboard and the roller in such a way that the former can be adjusted to suit the hight of the operator and the quantity of clothes to be operated upon; and the latter being hinged, it adapts itself to the clothes that may be put upon the washboard.]

29,575.—John Devlin, of Philadelphia, Pa., for an Improved Lever Escapement for Watches: I claim the application to the lever of the banking springs, f f', constructed and arranged to operate in the peculiar manner de-scribed.

29,576.—H. D. Dunbar, of Memphis, Tenn., for an Improvement is Pistons for Steam Engines: I claim, in combination with the solid or uncut ring, A, the seg-mental or cut rings, e i; the latter fitting into the angle of the for-mer, and both breaking joint with each other; said rings, e i, being held out by the action of the steam in the cylinder, mainly to pack the piston, as represented.

29,577.-Jacob Edson, of Boston, Mass., for a Street

sweeping Machine: I claim, first, Forming the rim of the driving-wheel with a series of sectional projections, teeth or cogs, that are susceptible of being emoved and replaced when worn, at pleasure, substantially as de-cribed. Second. Arranging the beauty of the second sec

scribed. Second, Arranging the broomshaft, b.b. disgonally with and across the line of the driving wheel, w w, and supporting wheel, a' a', as described and represented in the drawings, so as to easily balance the apparatus, however heavy the brooms and their shafts may be, with the use of but two wheels, permit the greatest possible width of broom being obtained, and enable the brooms to

possible width of broom being obtained, and enable the brooms to sweep close up to the edge-stone, as set forth. Third, Attaching the brooms directly to their shaft by means of the volute springs, c, so that they will bear with an elastic-yielding pressure upon and adapt themselves to the inequalities of the sur-face to be swept. Fourth, The arrangement of the dish-shaped driving-wheel and gear attached to the same, in the manner and for the purpose de-control of the sure of the dish-shaped driving-wheel and

crined. Fifth, The arrangement of the swinging bar, k, playing in the errical standard, l, and forming a bearing for the broomshaft, as

ertical standard, 1, and torining a strap, v, operating as de-sorthed. Sixth, The use of the elastic band and strap, v, operating as de-ribed, with the swinging bar, for the purpose set forth. Seventh, Hanging the supporting, wheel, a' a', in the hinged same-work, as described, and for the purpose specified.

29,578.-J. S. Fowler, of Peoria, Ill., for an Improve-

22,518.--J. S. FOWIET, of Feoria, 111., for an improve-ment in Corn Planters: I claim a seeding cylinder, arranged with its axis parallel to the line of motion of the machine, and having an alternate rocking motion in opposite directions, in order to scatter the seed laterally, in combination with a sled-runner drill plow, constructed and ar-ranged substantially as described, for the purpose as set forth.

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29,579.—R. W. Gardner, of Quincy, Ill., for an Im-provement in Governors for Steam Engines: I claim supporting the spindle of a governor on the head of a valve stem, but unconnected therewith, in combination with an adjustable weighted lever, tending to keep the several parts in close contact and partly balancing the weight of the moving parts of the govern-or, substantially in the manner and for the purposes described.

29,580.-R. M. Garrettson, of Rhinebeck, N. Y., for

25, 500.—R. M. Garrettson, of Rhinebeck, N. Y., for an Improved Camp Stool: I claim pivoting the arms, B B B B, and the legs, E E E, to the slotted block, A, and connecting these arms and these legs together by the peculiar joint described, so that the ends of said arms will act upon the ends of said legs in the block, A, in opening or closing the arms.

[This invention consists in so pivoting the legs and arms tool to a block that each arm will form a brace for its respective leg: and thus, when the arms are spread out and the canvas seat stretched over them, and a weight put upon the seat, the legs will be spread out and firmly held in this state ; 50, also, when the arms are ontracted in folding-up the stool, the legs will be drawn together and held in that state.]

29,581.-Wm. L. Gebby, of New Richland, Ohio, for an Improvement in Seed Planters:

I claim the combination and relative arrangement of plow share, R, harrow, UUS, coverers, T T, seed-box, B, semi-circular valve, I, curved bay, L, and connecting-rod C, spring, H, and levers, D H, substantially as and for the purposes set forth.

29,582.-W. Y. Gill, of Henderson, Ky., for an Im-provement in Air Pumps for Exhausting and Sealing Cans:

Ing Cans: I claim, first, Constructing and combining the plunger and air pump, substantially as described, so that one plunger may be used for the double purpose of exhausting the air and driving the stopper firmly into the mouth of the can or jar, as set forth. Second, Suspending the lower end of the main cylinder a suitable distance above the mouth of the can or jar, by means of an enlarged cylinder cup attached to said end of the main cylinder substantially as and for the purposes set forth.

29,583.-Schuyler Goldsmith, of Wataga, Ill., for

an Improvement in Cultivators: I claim the combination and arrangement of the seat, G, draft pole, I, racks, J K, and axle, E, splied to the frame, A, substan-tially as and for the purposes set forth.

[The object of this invention is to obtain a cultivator which will admit of being adjusted or raised and lowered bodily while the operator is seated on the implement; and also admit of having its front part raised or lowered, as circumstances may require.]

29,584.-B. A. Goodell, of Millbury, Mass., for an Improved Rotary Engine:

I claim, first, The arrangement, in combination with the hollow piston wheel, E H, and the pistons, F F, of the cam, b c d, attached to the journal-box, I, which receives the inner end of the shaft and inclosed within the piston wheel, substantially as described. Second, The arrangement of the valves, n u u', and their con-nections, w v v', in combination with the single induction passage, q, and its branches, r r', and the two exhaust pipes or passages, t, substantially as and for the purpose specified.

[This makes a very simple rotary engine. The peculiarities can ot, however, be well explained without a drawing

29,585.-C. F. Grabo, of Boston, Mass., for a Copy-

23, 585.—U. F. Grabo, of Boston, Mass., for a Copy-ing Press: I claim, first, The combination of the rod, G, with the levers, N and M, acting simultaneously upon the top and bottom plaken of a press, in the manner and for the purpose substantially as described. Secondly, I claim the manner of attaching the upright bolt, E, to the top platen, as described, and for the purpose substantially as spe-cified.

29,586. - Gottlieb Graessle, of Hamilton, Ohio, for an

20,000. — Goutineo Graessie, of Hamilton, Ohio, for an Improvement in Drain Tile Machines: Iclaim, first, The oil-boiled wooden molds, g g', constructed and applied in the manner and for the purpose set forth. Second, The combination and arrangement of the tempering tub, B C D E, grated sides, F H, sliding frame, I I', valves, b, and mold-ing tubes, G, constructed and operating in the manner and for the purposes set forth.

29,587.-J. C. Goar, of Monterey, Cal., for an Im-

29,587.—J. C. GOAT, Of Monterey, Cal., for an Improved Belt-shipper: I claim the arrangement of the pivoted locks or stops, E E', and their spring, G, upon the face of the belt-shipper or slide, B, in the manner shown and described, so that pressure upon either of the cords, H H', will first unlock the corresponding stop and then move the slide; all as set forth.

[This invention consists in furnishing the slide, by wh ment the belt is moved from one pulley to another, with two selfacting spins stops, one of which engages with a stationary notch to lock the slide in a position to hold the belt on one pulley, and the other with a similar notch to lock the slide in a position to hold the belt on the other pulley, and attaching the said stops to two cords or chains, so applied that, by pulling one of the said cords or chains, the slide is first unlocked, and then moved to ship the belton to one pulley; and by pulling the other one, the slide is first unlocked, and then oved to ship the belt on to the other pulley, and afterwards locked.]

20,000.--Wm. H. Greenwood, of Galva, Ill., for an Improved Lock: I claim the general form and arrangement of the plungers, P, of the key, as described, so that all of the changes can be made in the key, thereby making it a "mental" lock or not, as wished ; together with the general form and arrangement of the bolks, A and B, the rack and pluions, D and C, with the frame and lever, E and F, in the manner described, so that the lock will accommodate itself to the key.

29,589.-Asa Greenwood, of Toulon, Ill., for an Improved Tenoning Frame: I claim the combination

I claim the combination and arrangement of the two bearers, E E', the shoulder gages, D D', the holding recess, B, and the back gare, M; such being for the formation of rebates on opposite sides of "stuff" by a plane, so as to make a tenon on such stuff, as de-

cribed. I also claim the combination of the adjustable bars, LK', with the tool bearers, E E', the shoulder gages, D D', the holding recess, B, and the stop bar, M, arranged and applied together.substantially as specified.

29, 590.-J. S. Hall, of West Manchester, Pa., for an

Inprovement in Plows: I claim uniting a plow-standard to a plow-beam, by means of ratchet and flanged plates arranged on the sides of the beam and standard, so as to admit of folding-up, substantially such as de-scribed.

29,591.-J. S. Hall, of West Manchester, Pa., for an

Improvement in Plows: I claim a shoe or support as wdevice for fitting a straight handle to the back of a moldboard of a plow, when said shoe is made as de-scribed, of cast or wrought iron or of steel, and bolted or riveted to the moldboard, as stated.

29,592.-L. E. Hawkins, of Sangamon, Ill., for an Im-

27, 592.-D. E. Hawkins, of Sangamon, H., for an Hir provement in Cultivators: I claim the arrangement of the oblique stocks, J', plows, J, verti cally inclined stocks, I', plows, I, rods, a b, frame, A, axle-tree, B wheels, CC, pole, D, lever, E, and seat, G, as and for the purpos shown and described.

[This invention consists in attaching to the rear of a carriage frame, capable of being raised or depressed, three times or shovels, name, capable of being raised of depressed, three thes of shovens, so arranged that in once passing through the field between the young plants, they will loosen the soil on both sides of one row and on one side of each adjacent row; so that, virtually, two rows are culti-vated. Still, the shovels are so disposed t at the machine may be easily and properly guided between the rows.]

-A. A. Henderson, of Philadelphia, Pa. 20,000.—A. A. nencerson, ot Philadelphia, Pa., for an Improvement in Reaping and Mowing Machines: I claim the rake, 4, having an upright part and obliquely-descend-ing prongs, in combination with the endless chain or rope, arranged and operating as described, for the purpose of discharging the grain in gavels at intervals. 29.593.for

29,594.—A. A. Henderson, of Huntington county, Pa., for an Improvement in Machines for Reaping

and Raking Grain and Mowing Grass: I claim the combination of the rake, e. and horizontally-traveling endless belt or chain to which it is attached, with the platform, K', and sideboards, a b, or their equivalents, substantially as described, for discharging the grain in gavels at intervals.

ang sideboards, a b, or their equivalents, substantially as described, for discharging the grain in gavels at intervals.
29, 595. — J. G. Howard, of South B aintree, Mass., for a Machine for Applying Washers to Tacks:
I claim the combination and arrangement of the lifter, O, and vibrating hopper, M, or their equivalents, with the tack adjusting chute, L; the same being made to operate together, substantially as explained.
Also, the combination of the agitators, T T, or their equivalents, with the lifter, O, and the vibrating hopper, M, the said agitators being made to operate together, substantially as explained.
Also, the combination of the agitators, T T, or their equivalents, with the lifter, O, and the vibrating hopper, M, the said agitators being made to operate therewith substantially as and for the purpose specified.
Also, the combination of the notched tack-receiving and carrying wheel, K', and the lever, u, or the tack-separating mechanism, as described, with the adjusting chute, L, receiving the, I, and its mechanism for agitating the same laterally, in manner and for the purposes set forth.
Also, the combination of a spring presser, g2, as described, with the tack-adjusting chute, L, also, the combination of a pering presser, g2, as described, with the tack, add the receiving tube, I.
Also, the combination of the auxiliary discarger, L1, with the carrying wheel, K', and the lever plate, I, and its spring, m', or equivalent, mechanism, with the chute, L, and the spring wheel, K', and the every splate, L, and the spring wheel, K', and the server splate, Bar, I, and the combination of the lever plate, I', and its spring, m', or equivalent mechanism, with the chute, L, and the carrying wheel, K', the said lever plate being arranged in the manner and to operate with the chute and wheel as explained.
29, 596. —J. M. Hunter, of New York City, for an Im-

29,596.—J. M. Hunter, of New York City, for an Im-provement in the Preparation of Glue: I claim the above-described glue as a new article of manufacture; the same being made from whale-blubber scraps, substantially as described.

the same l

29,597.-Sabin Hutchins and J. D. Leach, of Penob-

scot, Maine, for an Improved Churn: We claim the arrangement of the churn, C, the pump, D, the sink, B, the lever, k, the pitman, g, the actuating shatts, r and t, the toothed wheels, e and f, and the hand crank, h, substantially in 'the manner and for the purpose set footh.

29,598.—Nicholas Jenkins, of New York City, for an Improvement in Wagon Springs: I claim the combination, with the springs, A A, of friction plates, G, springs, G, and set screws, h, constructed and operating substan-tially as and for the purpose described.

[The object of this invention is to obtain greater extent of motion with small springs. The invention consists in combining with each spring an arm, one end of which is pivoted to the casing containing the spring, which rests on a kuife-edge-shaped head of the spring close to its pivoted end, in such a manner that the long end of the arm, which connects with the platform or body of the wagon, is al-lowed to move up-and-down through a comparatively large space with a very small motion of the springs; also, in combining the springs with friction plates and set screws, in such a manner that their action can be regulated according to the load on the wagon; also, in arranging each spring with a separate tension nut, so that its action can be regulated, and that its tension can be increased if the

load on the wagon requires it.] 29,599.—Josee Johnson, of New York City, for an Im-

proved Clothes-dryer: I claim, in combination with the hinged frame or rods, A B C, and suspending cords, F G H, the straining cords, L M or N, operating to secure and release the rods; and the whole being arranged for action together, substantially as specified.

29,600.-Herrmann Jury, of New York City, for an

25,500.—Herrinann Jury, or New York City, for an Improved Spring Mattress: I claim the arrangement of wire frame cells and springs. A, in combination with smooth fastening plates, D, in the manner de-scribed, and for the double purpose of increasing the flexibility of the wire frame and obviating the necessity of cord or wire bind-ings, as set forth.

29,601.—Lathrop Kazar, of Leroy, Ill., for an Improve-ment in Adjustable Moles for Mole Plows: I claim the peculiar arrangement of the landsides, A, with respect to the adjustable apron, C, as operated, and inclined plane, D; the whole being constructed in the manner and for the purposes set forth.

29,602.-Wm. Kenyon, of Steubenville, Ohio, for an

29,002.—with. Renyon, of Steudenvine, Onlo, for an Improved Gas Pipe-cutter: I claim the combination of a chisel, D, of a gas pipe-cutter, with a stationary and a revolving chuck, F and A, a crankshaft, U, bevel gearing, I H, cog-wheela, B C, and screwshaft, J, or their equiva-lents, for the purpose of revolving the chuck, F, and feeding the cut-ting tool, D, forward, by the automatic action of the parts of the im-plement, substantially as set forth.

29,603.-Wm. Kimmel and Daniel Kimmel, of Cam bridge City, Ind., for an Improvement Stump Ex-

tractors: We claim the combination and arrangement of the capstan, B, lever, D, and shiftable roller, C, for applying the power at different speeds, substantially as set forth.

29,604.—Patrick Kenney, of Providence, R. I., for an Improvement in Valve Gear for Steam Engines: I claim the arrangement of the two tripping-bars, L L, jointed to arms of the valve rockshafts, and working on guides or stops, M M, incombination with the single rocker, N, and its adjustable toe, d; the whole operating substantially as described.

29,605.—G. H. Laub, of Newark, Mo., for an Im-provement in Carriage Springs: I claim the arrangement and combination of flat curved springs, C C, and arms, A A', when said arms are controlled by the segment gearon the contiguous portion of said arms and by the section of spiral spring, K, as described and represented.

29,606.-J. B. Lyons, of Milton, Conn., for an Improvement in Stump Extractors: I claim the combination, with a jointed frame, A A and B, as described, of the wheels, F F, serving a twofold purpose, gear wheels, p G, drum, H, pulleys, c c, and hlock and tackle, I J; all arranged and made to operate in the manner and for the purposes described and represented.

This invention consists in the employment of a jointed tripod This invention consists in the employment of a jointee strip framework, constructed of striper and suitably braced, it which are applied pulleys, a block and tackle, grapple hooks, a capstan and two large hand-wheels, which answer the purpose of carriage wheels for moving the frame about from place to place; it fur-ther consists in a novel device for adjusting the grapple hooks on their chains for adapting them to rocks or stumps of different sizes,] 29,607.—R. M. Lytle, of Triune, Tenn., for an Im-provement in Portable Scaffolds: I claim, first, Connecting the posts by means of transverse girders.

provement in l'ortable Scaffolds: I claim, first, Connecting the posts by means of transverse girders, arranged substantially as described, so that one or more may be taken-out or put-in without displacing the other parts of the frame. Second, Arranging the bands confiring the girders to the posts, so as to form splicing sockets to receive the two ends of the posts at the point where it is spliced. Third, The combination of a double wedge with two bands for strengthening the splicing of the post, when arranged substantially as described, for the purpose set forth.

29 608.-John Magee, of Lawrence, Mass., and Wm.

23 003.—John Magee, of Lawrence, Mass., and Wm. J. Towne, of Newton, Mass., for an Improvement in Stoves: We claim the described arrangement of the valve box, its valve and leading and discharging conduits, relatively to the mouth of a furnace, and a discharge opening situated in rear of the fire-pot, as specified.

29.609.-Robert Marcher, of New York City, for an

29,609.—Robert Marcher, of New York City, for an Improvement in Enameling Picture Frames, &c.: I claim the combination of a movable tool, mounted substantially as described, for laying enamel or composition on curvilinear frames, with a face-hask carrying the frame to be enameled, and a pattern of the form required to move the tool, substantially as and for the purpose specified. And I also claim the combination of two or more movable tools, mounted substantially as described, so that each shall be capable of independent motions, with the face-plate carrying the frame to be enameled and two or more patterns, one for imparting the required motion to each tool, substantially as and for the purpose specified.

29,610.—Charles Marston, of Viroqua, Wis., for an Improvement in Grain Harvesters:
1 claim, first, Operating the twosickles, G through the medium of the levers, k, reciprocating slotted plate, F, vibrating lever, g, schuzde by the grank, c, of the shaft, E, which derives its motion from the wheel, C, substantially as set forth.
Second, Operating the rake, K, intermittingly through the medium of the teeth, w, arranged in sections on wheel, D, and the pinion, r, on shaft, M, 'and also the crank pulley. L, connected by the grank, u, with the sweep or bar, I, having the slide, J, with the peridant, s, and the rake bar, j, attached; all being arranged substantially as described.
Third, The arrangement of the endless bands, a'c', in connection with the binding clamps, f'g', and their operating mechanism, substantially as shown, whereby the gavels are conveyed to the learnes, bound, and the shaves conveyed to the platform, T, for the purpose of being discharged in shocks.
Fourth, The platform, T, attached to the shaft, U, as shown and described, and provided with the x, Y, and the latter provided with the rate, K, W, to operate as set forth.
Fifth, The arrangement of the caster wheel, Y, with the caster-wheel arbor, r, and the cast. K, 'a shown, for the purpose of elevating the front part of the machine, when required.
Sixth, The arrangement of the caster wheel, Y, with the pinion, s', on its arbor, r', the segment, t', and lever, z, connected with the team or with the mechanism of any motor, to operate as set forth.

[This invention has for its object the obtaining of a mac

which standing grain may be cut, raked into proper gavels, bound and discharged from the machine in shocks. The invention consists in a peculiar arrangement of means emploped for this end, so that the grain will be cut and operated upon, consecutively, by the different parts, which are so devised as to admit of animal or steamheing applied.]

29,611.-John Maurer, of New York City, for an Im-

29,611.—John Maurer, of New York City, for an Improvement in Bottles: I claim, first, The arrangement of the doubly-inclined channel, a, around the spout, B, of a bottle, in combination with an opening, b, in the side of said spout and at the lowest point of said channel, substantially as and for the purpose specified. Second, The combination of the doubly-inclined channel, a, with the packing ring, substantially as described, so that, by the action of the channel, the packing ring is protected against the injurious infuence of such particular of the other which, in pouring out, may run down on the outside of the spout. This invention consists in arranging around a perforated or slotted

or the such portions of the liquid which, in pouring-out, will run down over the outside of the spout, are conducted back through said opening back again into the bottle.]

29,612.-P. G. McCulla, of Philadelphia, Pa., for an

Intervented and the provided and the

grinding mills in which a conical rotating grinder is placed within a corresponding shaped stationary shell, and which mills have crushing devices attached. The object of the invention is to facilitate the feeding or supplying of the substance to be crushed and ground to the crushing apparatus, and also to have the "dress" of the grinder and shell so formed as to insure rapid grinding and a free discharge of the ground substance.]

of the ground substance.] 29,613.—Wm. Riley, Jr., of Reading, Pa,, for an Im-provement in Nail Plate-feeders: Iclaim, first, The arrangement of the plate box, in such a position that the plate shall be delivered from the box for reception by the nip-pers, by a lateral movement, to a position in front of the nippers, or between the nippers and the cutters, substantially sa described. Becond, The means of operating the plate, I', by which the nail plates are forced from the box to be received by the nippers, onsist-ing of the pinion, J', shaft, J, pinion, J2, toothed sector, J3, arm, J4, "ranged substantially as specified. Third, The described mechanism for drawing back the nippers to withdraw the plate from the cutters, consisting of the oscillating fric-tion sector, X', the friction wheel, X, the spur wheel, X3, and the rack, r, applied and operating substantially as described. Fourth, The described mechanism for rateing and turning the enpipershaft, consisting of the plate. It whole comiled. Tourd, The and the panel, S, and W7, the sector, R, the lose pinion, f, and its paw, 13, and the frast-toched collar, F5, on the impershaft; the whole applied, arranged and operating substantially as specified.

Fifth, The constinuation of the chain sector, S, the sleeve, U, with its cams, $\mathbf{V} \in \mathbf{X}$, and the clutch, Z; the whole applied substantially as described, upon the same rockshaft, and in connection with the carriage, E, which earries the inpers, substantially as and for the purposes specified. Sixth, The mechanism for operating the clutch, Z, consisting of the reverse cam, T, the lever, 26, the rockshaft, 21, with its several arms, and the tappet, 28, attached to the carriage; the whole applied and com bined substantially as set forth.

This invention consists in a certain novel arrangement, in com bination with the nippers of a plate-holder of a feeder for cut-nail machines, of a box from which the plates are supplied, one at a time, to the nippers by automatic mechanism. It also consists in certain means for effecting the supply of the plates from the said box at the proper time; also, in certain improved means of drawing back the nippers with the plate from the cutters, preparatory to the turning of the plate and of lifting up and turning over the nippers with the plate; also, in certain means of discharging from the nippers the fag or waste ends of the plates; also, in a certain system of mechanism for moving back and changing the movements of the carriage which carries the nippers.]

29.614.-E. H. Plant, of Plantsville, Conn., for an Improvement in Attaching Thills to Vehicles:

I claim the employment of the wedge, L, screw, e, and nut, H, in combination with the xle, A, slotted plate, G, strap, D, bar, F, and pintle, G, as show and described, so that by depressing the wedge, E, the strap, D, with pintle, G, will be carried towards the plate, C, and the hearing of the pintle, G, between the strap, D, and the end of plate, C, will be tightened—all as set forth,

[The object of this invention is to obtain a simple means for attach-Latte object of this invention is to offstin a simple means for attach-ing thills to axles, whereby all wear may be compensated for, or the parts readily adjusted so that they may be kept snugly in contact and the disagreeable rattling attending a looseness or play of the coupling, with the consequent wear and tear, avoided.]

29,615.-G. W. Rains, of Newburg, N. Y., for an Improvement in Steam Boilers:

I claim the combination of the upper and lower annular chambers A B, connected by two or more series of water tubes, C C D D, the bars, F F, or other filling between the inner tubes, the curtain-like cylinder, G, and the outer casing, H—the whole arranged substan-tially as pecified.

29,616.-G. J. Rice, of Frederick City, Md., for an

Improved Sugar-grinding Mill: I claim the arrangement and combination of two cylinder rollers having pins or projecting points on the surface of each, both revolv-ing together at different degrees of speed, in combination with the morable[bottom, J,which extends over and protects cylinder, F, from the pressing weight of the sugar and jarring mechanism, substan-tially as and for the purposes specified.

29,617.-O. L. Richardson, of Athens, Ga., for an Improved Curb for Millstones:

I claim the employment of a curb, C, composed of two parts, a the upper part, b, being provided with a flange, c, and the two par a,b, being separted by the interposed ribe or fans. D, leaving an space, d, and an air escape orifice at the upper edge of the part, over which the edge of the part, b, projects—all as shown and scribed for the purpose set forth.

[The object of this invention is to obtain a simple and efficient de. vice for admitting of the perfect ventilation of the millstones, that is to say, the admitting of a current of air through or between the stores while in operation, so as to keep the same in a cool state and thereby avoid heating the meal, consequently enabling the grinding operation to be considerably expedited.]

29,618.-Mark Rigell, of Dawson, Ga., for an Improvement in Cultivators:

I claim the combination of the spring shackle, G, and adjusting bar, E, with the beams, A A, and stocks, B B, arranged and oper-ating in relation to each other as and for the purpose set forth.

29,619.—John Merry, of Eldorado county, Cal., for an Improved Mode of Marking Stock: I claim the application of the owner's name with address by stamp-ing or otherwise, and the mode of locking or securing the brand.

29,620.-Ezra Ripley, of Troy, N. Y., for an Improved Wrench and Pincers:

I claim the arrangement of the fixed and sliding wrench jaws, A B, upon one handle, C, of a pair of pincers, substantially as repre-sented; the other handle, F, of the pincers and the sliding wrench jaw being formed to engage together substantially as herein de-scribed.

29.621.-J. K. Robinson and J. M. Clark, of Bellaire. Ohio, for an Improvement in Pistous for Steam Engines:

gines: We claim, first, A piston composed of a series of solid disks or plates of varying diameter, united by bolts substantially as described for the purpose set forth. Second, Perforating the bolts which hold the piston plates together substantially as and for the purpose described. Third, Adjusting the pressure of the steam upon the packing rings by turning the screw bolts, substantially as described. Fourth, The combination of the guard plate, I, and tongue piece, i, with the ring, when arranged substantially in the manner de scribed.

29,622.—J. G. Rogers, of San Francisco, Cal., for an Improvement in Tool Handles:

I claim the attaching of the handle, C, to the pick, A, or other tool by means of the straps, B B, bands, D D, and the steel rod, d placed transversely in the handle, C, and having its ends projecting from the handle and fitting in the holes, e, in the straps, substan-tially as described.

This invention relates to an improved mode of attaching handles to that class of tools and implements which are generally provided with eyes to receive the handles. The object of the invention is to dispense with the use of eyes which greatly weaken the tools, and at the same time obtain a firm and durable connection, and one that will admit of a ready adjustment of the handle to the tool and its de tachment therefrom.)

29, 623.—Wm. Russell, of Stoughton, Mass., for an Improved Wrench and Vise: I claim the combination of the bar, A, jaws, B C, screw, D, pro-vided with a detachable handle, E, and the socket, F, arranged as shown to form a new and useful article of manufacture, for the pur-pose specified.

pose specmed.
29, 624.—W. F. Schroeder, of La Porte, Ind., for an Improvement in Seed Planters:
claim, first, The manner of connecting and operating the spades for the purpose of regulating the depth the holes are to be dug, or to throw them out of operat on when desired.
Second, The arrangement of the conducting pipes, in combination with the spades and feeding cup operated in the manner and for the purpose substantially as described.
Third, The arrangement of scrapers when connected with levers operated by the spades in the manner and for the purpose substantially as set forth.

29,625.—John Seiberling, of Philadelphia, Pa., for an Improvement in the Preservation of Caustic Al-

kalies: I claim putting up caustic potash or soda in small quantities i wooden boxes previously prepared or coated on their innersides an subsequently scaled hermetically, substantially in the manner an for the purposes set forthand described.

29,626.—Jackson Shannon, of Dakota, Wis., for an Improvement in Culivators: I claim the traverse bars, C C, attached to the bars, a s, as shown, and used in connection with the planks, E E, and seat, D, and the axle, G, on which the bars, a, are fitted loosely, substantially as and for the purpose set forth.

[The object of this invention is to obtain an implement which be used as a seeding machine to plant seed either in hills or drills, and also used as an expanding cultivator; the implement operating in either capacity equally as well as if it were designed especially for each.]

29,627.-George Slusser, of Hillsboro', Ohio, for an

Inprovement in Animal Traps: I claim combining the rollers, d d, with the rear portion, B, of the base frame of said trap in the manner and for the purpose set forth.

29,628.—H. T. Smith, of Washington, D. C., for an Improved Bedstead Fastening: I claim a face-plate constructed substantially as described, with a projecting flange arranged to form a straining to the fastening key, and with a double-pointed, revolving book arranged to enter a bolt on either side, and also with a cup projecting over and forming a guide and guard to the curved hook.

29.629.-James Smith, of Norfolk, Va., for an Im-

29,029.—James Smith, of Norrolk, Va., for an im-provement in Plows: I claim the arrangement of the peculiar moldboard, C, herein de-scribed, straight...dgrd point or cutter, A, and inclined landside bar, B, with its movable heel piece, D, when said moldboard ex-tende down beyond the front end of the landside bar and the curve of the same is formed by a straight line moving parallel to the edge of the cutter in the path of a cycloid, as and for the purposes set forth.

[The cutter or point of this plow has a straight edge across its whole width and a similar straight back, which latter fits into a recess at the lower end of a moldboard. The surface of the moldboard presents a curvature of the first order, being produced by the motion of a straight line parallel to the edge of the cutter in the path of a excloid. Thus all horizontal sections of the moldoard at differ enthights above the ground present straight lines parallel to the edge of the cutter, and all vertical sections through the moldboard present identical cycloids parallel to each other. The most rapid curvature of this cycloidal surface is near the top of the moldboard: The landside of the plow is inclined so that the plow rests on a broad edge in front and only on one point at the heel. By this construction of plow the sod moves up gracefully over the cycloidal moldboard without being broken, it only being turned over when it arrives at the top of the moldboard. We consider this to be a most excellent nlow]

29,630.-Nathaniel Snow, of Boston, Mass., for an

20,000.—Italianiei Diow, of Boston, Mass., for an Improved Steering Apparatus: I claim the arrangement of the two racks, S S', the pinion, R, the auxiliary shaft, P, the bevel wheel, O. its pinion, N, the steering wheel shaft, K, and the slides, C C, applied to and for operating the rudder head as specified.

29,631.-M. Messer and A. Steinbrenner, of Cleveland

25,001.—M. MESSER and A. Steinbrenner, of Cleveland, Ohio, for an Improvement in Hanging Sashes of Railroad Car Windows: We claim securing the sash. E', in railroad cars by means of the notch, N, spring, P', and dowels, G', when these several parts are arranged and operated substantially as and for the purpose set forth.

29,632.—W. S. Stetson, of Baltimore, Md., for an Im-provement in Harvesters: I claim, first, Supporting the platform, a, over the axle, d, of the carriage wheels, and on the shaft, a', by means of the uprixites, b, in such manner that by withdrawing the rods, f , and the lever plan, p, the platform can be removed at once from the body of the ma-

p, the platform tail be removed at other from the body of the ma-chine. Second, Combining the reversible spring lever, k, with reversible and adjusting lever, j, as set forth. Third, So constructing the lever, J, and combining with it the axle, d, and reversible lever, h, that the said lever; j, may be readi-ly adapted to raise and lower the curtarge wheels as set forth. Fourth, Arranging the pawi, u, and spring, v, and ratchet, w, all within an open cylindrical rim, x, projecting inward from the hub of the driving wheel, whereby the parts are not only protected from fining dust and dirt falling from the diving wheels and disturbance from other sources, but are convenient to the driver to operate them directly with hig hand without the aid of rods or levers. Firth, Providing the pawl, u, with a notch, z, the spring, v, and the rackhet, w, so that said partsmay operate and be operated as set forth.

Norva. Sixth, Changing the position of the cutter bar from rear of the carriage wheels, substantially in the manner set forth.

29,633.-H. D. Stover, of New York City, for an Im-

29,633.—H. D. Stover, of New York City, for an Improved Cutter-head for Rotary Planing: I claim, first, The conical or conergraduating feed whereby the operator and stock are both secure when the latter is being entered to the cutters, essentially as set forth. Second, Such graduating cone feed and revolving, adjustable guard with cutter-head, essentially in the manner and for the purposes fully set forth. Third, Flacing and clamping the cutters at an angle with and above each other essentially in the manner and for the purposes fulls set forth.

re each o ret forth

above cach other essentially in the manner and for the purposes fully set forth. Fourth, Combining a guide ring, F, with the cutter-head so that the ring shall remain stationary while the cutter-head revolves with great velocity within, when such ring and cutter-head are kept lu-brickted by a spiral channel in cutter-head or ring, to force the oil to every part of the working surface, essentially as set forth. Fifth, Constructing curved grooves in collars, C and X, and im-parting a corresponding reversed shape to the ends of clamp pieces, G, for securely holding them from flying out even if they should, by any reason, become loose, essentially in the manner and for the purposes fully set forth. Sixth, Constructing the cutters, K L M and Q, and blanks, O S and U, with dovetail pieces, R P T and V, fitting to corresponding dovetail grooves formed in main part, B, to preven the cutters or blanks from firing out under any circumstances, essentially in the manner and for the purposes fully set forth.

29,634.—A. M. Street, of Denmark, Tenn., for an Improvement in Gearing:
Iclaims oconnecting the friction rollers to the cogs of gear wheels by means of journals and slots, or their mechanical substitutes, as that the entire pressure by which the wheel is driven sholl be exercised.
29,635.—J. B. Sutherland, of Detroit, Mich., for an Improvement in Sleeping Cars:
Iclaim the employment or use of the bearings or brackets, D Dr.
Iclaim the employment or use of the bearings or brackets, D Dr.
I claim the employment or use of the bearings or brackets, D Dr.

connection with the pins or studs, a, attached to platform, b, and the pins, b, hooks, c, and grooves, d, in the plates attached to the plat-form, C-all being arranged substantially as and for the purpose set forth.

[This invention relates to an arrangement of means for folding the platform berths in sleeping cars, and is designed to superside the cast metal segmental guides hitherto used in the arrangement of seats and berths.

29,636.-J. F. Tannehill, of Staunton, Va., for an

20,000.—9. r. Tannehill, of Staunton, Va., for an Improvement in Seed Planters: I claim a driving and carrying wheel provided with segments hav-ing radial arms for warying its circumference, in combination with a seed-delivering apparatus substantially such as described or its equivalent.

29,637.—W. A. Taylor and W. W. Graves, of Fort Adams, Miss., for an Improvement in Cultivators: We claim the adjuetable beams, E. E. plows, d. d. brace rods, b, and the scrapers, G. G. with their standard braces, b, and the brace rods, g. g-all combined and arranged in the manner herein set forth.

This culivator is intended for loosening the soil, thinning out the plants and scraping the sides of the hills in drill husbandry. It con-sists in the use of a quadrangular frame capable of being adjusted laterally to adapt the machine to rows of different widths, two plows for hill plowing, attached to standards that are secured to the adjust. able beams of the frame, said standards being braced to the in a peculiar manner, and two scrapers placed in rear of the plows and braced in a novel manner.]

29,638.—A. Threlkeld, of Boone county, Ind., for an Improved Washing Machine: I claim the arrangement of the roller, C, on a straight line with the bottom of box, A, in combination with balls, D, and corrugated ends, E-the whole arranged on rockers, B, operating as described and for the purposes set forth.

29,639.-Nathaniel Tufts, Jr., of Boston, Mass., for

an Improvement in Gas-meters: I claim, incombination with the supplying pipe, p. p. the double-headed independent bellows connected at its rear buad or plate with the said pipe by a screw joint or otherwise, as set forth.

29,640.—I. C. Twining, of Wrightstown, Pa., for an Improvement in Automatic Rakes for Harvesters: I claim, first, The arrangement of the wheels, I K G, toothed at their perpheries in sections, in connection with the bent bar, O, cam, H, and rake bar, L, attached to the upper surface of the wheel, K, substantial y as and for the purpose set forth. Second, The arrangement with the wheel, I, of the pinions, d e, cam, g, and lever, G', and spring, c, substantially as shown, for the purpose set giving the necessary dwells or cessations of movement to the rake, as and for the purpose set forth. This invarion relates to an improvement in that class of raking

[This invention relates to an improvement in that class of raking devices in which a vibrating rake is employed and arranged to sweep over the platform in the arc of a circle. It consists in a novel and improved means for operating the rake whereby the two move-ments necessary to be given the rake, to wit, the vibrating and the rising and falling one, may be obtained in a very simple and economical way, and the rake mude to operate intermittingly when de-

stred.] 29, 641. ---Wm. Van Anden, of Poughkeopsie, N. Y., for an Improvement in Machines for Cutting Files: I claim, first, Striking a series of blows on a chisel in combination with the file blank while in a state of rest and in the same tooth, for the purpose as heretofore set forth and described. Second, The formation of the self-adjustable chisel-holder, viz, by the combination of the shell, X', the yielding or loose back, X2, for the purposes heretofore set forth and described.

29,642.-G. W. Van Deren, of Big Flats, N. Y., for

29,642.—G. W. Van Deren, of Big Flats, N. I., for an Improvement in Steam Engines: I claim the arrangement of the two pistons, B B', connected by a curved piston rod, C, in the interior of the semi-circular cylinder, A, with steam passages, a a', in the ends, constructed and operating substantially as and for the purpose set forth.

[This invention consists in arranging in the interior of a semi-circular cylinder to which steam is admitted through passages in its end, two pistons connected by a curved piston rod, so that the steam acts alternately on the two pstons with its full force, and so that an oscillating motion of said pistons is produced, which, by connecting a pin that projects from the middle of the piston rod with the crank pin of the fly wheel shaft, is converted into rotary motion.]

29,643 — Amos Whittemore of Cambridgeport, Mass., for an Improved Machine for Making Horse-shoe

IOT at a improved Nails: I claim, first, The mode of operating the shears or cutters, the sume being made to advance at the proper moment, to sover the nail from the rod and then to fallout of the way, substantially as and for the purpose described. Second, The various parts which constitute the feeding apparatus. consisting of the upright, 5, levers, S and C. spiril spring, a, and rod, b—the whole operating in the manner and for the purpose spe-sified.

fied Third, The levers, and e, acting in conjunction 16 hold the road hile the nail is undergoing its formation, substantially as and for "purpose specified. Fourth, The sliding frame, D, in combination with the chambers, II, each being operated upon substantially as and for the purpose seribed.

29,644.-Ferdinand Wolf, of Brooklyn, N. Y., for an

29,644.—Ferdinand Wolf, of Brooklyn, N. Y., for an Inprovement in Cultivators: I claim, first, The roller. B, provided with teeth, a, in combina-tion with the harrow, C, plows, D, plates, E E', and the gearing throu ch which motion is riven to the several parts—allarranged and operating substantially as and for the purpose set. forth. Second, The combination of the plows, D, with the plates, E E', operating so as to layout the ground in regular hills substantially as described. Third, The plates, E E', operated by means of lazy-tongs, I, sub-stantially as and for the purpose specified. [This invertion excitation examples in a substantially for amounter of the plates.]

[This invention consists in arranging in a suitable framework a rotatingicylinder or roller provided with teeth, for opening and pulverizing the ground, operating so as to transmit motion to the other devices. It also consists in combining a gang of plows, having a pe-culiar motion, with rising and falling plates for forming the hills. Also, in a peculiar device for making transverse drills, and for forming the hills in a direction opposite to that of the plows.]

29,645.-Wm. Wood, of Hartford, Conn., for an Im-

59,646.—Albert J. Allen, of Buffalo, N. Y., assigno^T to R. Allen, of Rock Stream, N. Y., foran Improve

to K. Allen, of Rock Stream, N. Y., for an Improve-ment in Steam Gages: I claim, first, The combination of lever, E, with capsule, C, the said lever being so constructed and arranged as to have a bearing upon the capsule upon one side of its fulcrum, e, and a bearing upon a spring upon the other side of its fulcrum, for the purposes and substantially as described. Second, The combination and arrangement of spring, F, with lever, E, and capsule, C, substantially as set forth. Third, The combination and arrangement of lever, E, fulcrum block, D, cursule, C, spring, F, and stop, G, substantially as shown and described.

29,647.—A. S. Ballard (assignor to himself and Joseph Howe), of Mount Pleasant, Iowa, for an Improve-ment in Ditching Machines: I claim the plow, G G', constructed substantially as described, with or without the movable bottom, in combination with the hori-zontal cutters, k k, cutters, e e, and carriage, A B -the whole being arranged and operating in the manner and for the purposes set forth.

[This invention consists in constructing a plow with an inclined ottom and furnishing it with a series of cutters and wings arranged in such a way and combined with two carriage wheels and an adjustable mechanism, that the plow will dig into the earth to any desired depth to form a ditch or trench, and elevate the earth as rapidly as it is loosened by the plow cutters, which, after being elevated to the surface (the earth) will be thrown off from each side of the ditch by of the plow, and a scraper that follows in the rear of the machine.1

29,648.—F. H. Drake, of Middletown, Conn.. assignor to himself and J. S. Christie, of New York City, for an Improvement in Sewing Machine Needles: I claim making a perforating sewing machine needle substantial-by as described and represented.

29,649.-J. F. Flanders (assignor to himself and E. G.

29,649.—J. F. Flanders (assignor to himself and E. G. Allen), of Boston, Mass., for an Improvement in Leather-splitting Machines: I claim, first, The arrangement of sectional rollers for the direct or immediate support of the hide or leather at the delivery of the same to the edge of the circulating knife, in combination with a roller located below the sectional rollerand constructed as described with elastic surface and fixed bearings. Second, Placing the sectional roll to one side of the vertical axis of the elastic roll, as described. Third, Holding the leather and controlling its progress while passing through the machine by means of a brake operating subatnitially as described.

29,650.-H. M. Jacobs (assignor to T. J. Vail), of Hartford, Conn., for an Improved Machine for

Havtford, Conn., for an Improved Machine for Burnishing Spoons: I claim, first, The arrangement of the burnishers, K, attached to the arms, J, the screw rod, L, connected with the burnishers by the nuts, j, the ratchet, I, pawl, N, and the rever, M, actuated sub-stantially as shown. for the purpose of feeding the burnishers later-ally across their work as described. Second, The adjustable rod, Q, provided with springs, R R, fitted in the upright, H, having its springs, R, resting on the arm, J, of the burnishers, for the purpose of readuating the pressure of the bur-nishers on the bowls of the econs, as set forth. Third, The curved plate, S, when combined with the rod, Q, hav-ing the springs, D' b', attached and arranged relatively with each other as shown, for the purpose of causing the burnishers, while moving back and forth, to conform to the longitudinal profile of the bowls.

29, 651.—E. A. Leland (assignor to himself and John Benson), of Brooklyn, N. Y., for a Paint Can: I claim the construction of the can with two lips, as shown, one of which is formed into a shoulder, a, or e, to support the cover, C, while the other lip, A, composed of soft, fiexible metal, is bent over upon, and made to seal the cover, C, when the latter is to be closed; but when the can is to be opened, the said lip, A, is bent up to a perpendicular position, so that the cover may be removed—all with-out any soldering or cutting, as and for the purpose specified.

[This invention consists in the use of a ring of some soft, flexible metal which is rigidly attached to the top edge of the can or canister, and which allows of being turned over the edge of the cover in order to fasten the same down when it is desired, and which, can easily be bent back so as to free the cover whenever it is desired to open the can, without cutting any part of the cover, thus affording the means to fasten and open the can or canister manytimes, without soldering by using the same ring and the same cover. In combination with this flexible ring the top edge of the can or canister is formed in such a manner by bending it in or by turning it inwardly over the strengthening wires, that the same forms a good shoulder for the cover to rest upon and allows the same to close down tight, to prevent any escape of the contents of the same to close down tight, to prevent any escape of the contents of the can or canister. The invention also consists in an improved mode of attaching the bale to a paint can by passing the hooked ends of the same through holes in the side of the

passing the holes are covered up and protected from the inside by a can, which holes are covered up and protected from the inside by a plate which is soldered over the same, thereby affording a simple, plate good and substantial hold to the bale, without allowing the contents of the can to escape.]

29,652.-D. F. Malthy (assignor to the Waterbury But-ton Company), of Waterbury, Conn., for a Photo-

graphic Medal: I claim the article which I have described and termed a "photo-graphic medal," composed of a ring or plate of solid metal, constitut-ing a frame orrim of a medallic claracter surrounding one or more pictures produced by photography.

29,653.—Aaron Miller (assignor to himself, G. B. Whiteside, G. F. Barnett and J. M. Lane), of Brockport, N. Y., for an Improvement in Corn

I claim the arrangement of the slide, V, rollers, P, levers, a r j j rods, c c d d, and wheel, E, as described and for the purposes spe-cified.

29,654.—Bradford Stetson, of Uxbridge, Mass., as-signor to himself and Elmer Townsend, of Boston, Mass., for an Improvement in Turbine Water Wheels:

vv necis: I claim arranging the slotted plate, E, and its shaft, C, with the wheel, A. and its shaft, B. joining the two shafts, B and C, by the disks, m n, and screw, o, connected as described, and applying the plate, E, to the buckets and the latter to the wheel heads, as spe-cified.

RE-ISSUE.

E. H. Ashcroft, of Boston, Mass., for an Improvement in Apparatuses for Naphthalizing Gases. Pat-It Apparatuses for reprinting cases. In-ented June 5, 1860 I claim the above-specifier arrangement and application of the float, scroll and disk, whereby hey are rendered capable of easy and proper adjustment as explain 1. Also, the combination of or or more propelling wings or the equiv, stent thereof, with the scioll and float, when applied and used with

in a cistern substantially in manner and for the purpose as described -such propelling devices being to facilitate or effect the rotation of the said fixet and scroll while buoyed within the liquid as described. Also, the application and arrangement of the foraminous dia-phragm with respect to the cistern and eduction pipe of the appara-tus as described.

ADDITIONAL IMPROVEMENT.

Alburtus Geiger, of Dayton, Ohio, for an Improvement in Lamps. Patented May 29, 1860: I claim, first, Expanding the low er portion of the wick tube into a chamber or reservoir for the reception of the fluid as it flows through valve, E, thereby securing a more steady and regular supply to the wick and also preventing the fluid from being vaporized too far from the burner. Second, The computations of the chamber, H, with the wick tube, C, and heaters, A A-all being arranged substantially as and for the purposes specified.

DESIGN. J. P. Cunningham, of Franklin, Tenn., for a Design

for Coffins.



CORRESPONDENTS sending communications for publication in our columns are requested to avoid writing on both sides of a sheet of paper. This fault, though common to persons unaccustomed to writing for the press, gives great trouble to the printer (especially in longarticles), and, when combined with illegibility of andwriting, often causes interesting contributions to be regretfully consigned to our waste-paper basket.

- C. W. S., of Conn.-You will find the philosophy of the dew explained on page 338, Vol. I. (new series), Scientific AMERICAN It neither rises nor falls; but is condensed from the pisture in the atmosphere.
- S. B., of Minn.-Your description of the meteor is very intersting from your locality; and, as we have decided to give the subject no more space in our paper, we shall hand your letter to Professor Mitchell.
- SKILLFUL CHEMIST, of Ind.-It is so uncertain whether the cattle epidemic in Massachusetts is the same as the disease which you have treated so successfully, that we shall hardly make room for your communication.
- H. H. G., of N. Y., and R. W., of munications on the sugar light are received. We think Mr. Root's communication exhausted the subject.
- B., of Conn.-We refer you to page 110 of the cur-
- rent volum C. D., of Mass.-For high-pressure engines, the cylinders have to be :--For 2-horse powers, 6.5 by 17 inches; for 2-horse powers, 7.5 by 19.5 inches; for 4-horse powers, 8.5 by 22 inches; for 5-horse powers, 9.1 by 23.5 inches; for 6-horse powers, 9.8 by 25 inches
- J. H. of Ill.-The article on coal oils to which you refer was translated literally from "Le Génie Industriel." We thought, at the time, that we should like to know the particulars about which you inquire; but we know of no way of ascertaining them.

A. L. C., of Mass.-Your interesting description of the meteor is received.

- -.-We do not believe that the compo-R. H., of sition you describe will make a coating (for buildings) which will not crack. We know of none that will. We have had roofs made of coal tar, asphaltum, &c., that were perfectly tight, and entirely satisfactory in every respect.
- T. L. B., of Ill.-A circular saw used for sawing fire wood takes more power than there is in a man's muscles to drive it constantly for any considerable time. It needs horse, steam or water-power. Belts are better than gearing for driving circular
- C. H. W., of Conn. A gear wheel might be suspended
- between two others without bearings, except upon the cogs. N. C., of Ala.—You will see that Giles' "compensating pendulum" was disposed of on page 99 of the present volume
- D. S., of Pa.-Your description of the appearance of the meteor is received, and seems to confirm the general opinion in regard to it. A great mass of iron, nickel, &c., rushing through the air with a velocity of 20 miles per second, would have its sur-face heated by the condensation of the air; and this heated surface would be apt to fly off in scales which would fall to the ground.
- W. T. G., of Conn.-We perfect ly agree with you that atmospheric electricity is generally positive, and that the discharges are almost always downwards. There are some instances on record of upward discharges having taken place; but they are very rare indeed.
- R. F., of N. Y .- Smee's battery is about the best which you can use for electro-plating; and his work on the subject, pub-lished by J. Wiley, Walker-street, this city, will afford you the instruction desired to conduct the operations.
- J. H., of Pa.-Of course, if the handle of a screwdriver can be held at an angle with the screw, so as to swing around the line of the latter, the longer the handle, the greater the leverage.
- J. F. F., of --.--A compression of air equal to four-fifths of its volume is sufficient to ignite tinder.
- W. S. T., of N. Y.-As long as your first inventions proved so valuable in the hands of others, you ought to be able, with proper effort, to find some one among your acquaintances to take hold of the others which you ha. S in store, provided they are really good ones.

MONEY RECEIVED

At the Scientific American Office on account of Patent At the Scientific American Omce on account of Fateht Office business, for the week ending Saturday, August 18, 1860: – C. S., of Pa., \$30; D. F. D., of Ind., \$55; A. A. R., of Mass., \$25; G. R. B., of Pa., \$30; D. F. D., of Ind., \$55; A. A. R., of Mass., \$25; S. R. B., of Pa., \$30; D. F. D., of Ind., \$55; A. A. R., of Mass., \$25; G. R. B., of Pa., \$30; D. F. D., of IN, Y., \$25; P. H. S., of Cal., \$55; W. T. O., of Ga., \$25; D. F. E., of Mass., \$15; L. W. T., of Minn., \$25; J. G. P., of Austria, \$350; W. T. D., of N. Y., \$55; S. & H. of N. Y., \$10; J. P., of N. Y., \$20; B. P., of Ga., \$25; C. W. F., of N. Y., \$30; I. F., of Va., \$25; A. B., of N. Y., \$25; A. & C., of Mo., \$35; J. R. S. of Fla., \$25; E. D. p. of Conn., \$56; D. F., of Pa., \$37; G. I. C., of Vt., \$30; W. H. H., of Ala., \$30; S. C., of Ga., \$30; J. T. H., of Miss., \$12; A. & G., of N. Y., \$25; L. A. B., of N. Y., \$25; J. W. H., ot N. Y., \$25; R. & E., of Wis., \$150; F. H. W., of Cal., \$57; M. L. C., of N. Y., \$33; N. S. M., of Conn., \$10; S. R. W., of R. I., \$25; L. W., of Mass., \$25; C. A. R., of Ala., \$75; J. B., ot N. Y., \$15; W. D., of N. Y., \$25; G. W. S., of Conn., \$25; B. S. P., of Ga., \$25; J. J. M., of Conn., \$25; N. S., of Wis., \$25; J. H. H., of Ky., \$30; L. L. A., of Mo., \$20; J. B. D., of N. Y., \$50; S. C. W., of Conn., \$30; W. D. M., of N. \$26; M. S., of Mass., \$12; J. H. H., of Ky., \$30; L. L. A., of Mo., \$20; J. B. D., of N. Y., \$50; S. C. W., of Conn., \$30; W. D. M., of N. \$4, \$26; J. B. C. B., of Ky., \$50; J. H. L., of Ky., \$30; J. M. T., of N. \$430; T. E. C. B., of Ny, \$33; S. H., of L. I., \$15; H. L. N., of N. Y., \$30; T. E. C. B., of Ny, \$30. Office business, for the week ending Saturday, August 18, 1860:-Y., \$30.

Specifications, drawings and models belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, August 18, 1860:-G. W. S., of Conn.; T. H., of Cal.; M. C. B., of Ill.; F. E. M., of N. Y.; P. & R., of Mo.; G. H. & S. F., of N. Y.; F. J., of Ill.; Van

N. Y.; P. & R., of Mo.; G. H. & S. F., of N. Y.; F. J., of Ill.; Van A. & L., of N. Y.; J. C., of La.; L. A. B., of N. Y.; M. L. C., of N. Y.; W. D. M., of Va.; B. & M., of N. Y.; T. E. C. B., of Ky. (two cases); W. D., of N. Y.; A. & C., of Mo.; A. A. R., of Mass.; S. C., of Ga; C. P. G., of Ill; D. F., of Pa. (two cases); E. D. A., of Ala.; G. H., of Conn; O. P. A., of N. H.; J. R., of N. Y.; J. H. LaB., of N. Y.; C. & G., of Mass.; B. P., of Ga; C. A. R., of Ala. (two cases); S. P. W. of P. I. P. N. P. of N. Y. P. H. of Conn.; A. K. N. Y.; C. & G., of Mass.; B. P., of Ga.; C. A. K., of Ala. (two cases); S. R. W., of R. I.; P. N. B., of N. Y.; R. E. H., of Conn.; A. & G., of N. Y.; W. S., of Wis.; J. F. H., of Maine; J. J. M., of Conn.; L. W. T., of Minn.; B. S., P., of Ga.; J. B. D., of N. Y. (two cases); W. T. O., of Ga.; I. K. S., of Fla.; G. R. B., of Pa.; S. H., of N. Y.; A. B., of N. Y.; I. F., of Va.

IMPORTANT TO INVENTORS.

HE GREAT AMERICAN AND FOREIGN PATENT AGENCY.-Messrs. MUNN & CO., Proprietors of THE THE SUBMITTER AMERICAN, are happy to announce the engagement of HON. CHARLESMASON, formerly Commissioner of Patents, as associate counsel with them in the prosecution of their extensive patent busiress. This connection renders their facilities still more ample than they have ever previously been for procuring Letters Patent, and attending to the various other departments of business pertaining to patents, such as Extensions, Appeals before the United States Court. Interferences, Opinionsrelative to Infringements, &c., &c. The long

patente, studi as Datenations, Appears bettor the Content States Contr.
 Interferences, Opinionsrelative to Infringements, &c., &c. The long
 experience Messrs, Musn & Co. have had in preparing Specifications and Drawings, extending over a period of fifteen years, has rendered them perfectly conversant with the mode of doing business at the United States Patent Office, and with the greater part of the inventions which have been patented. Information concerning the patentability of inventions is freely given, without charge, on sending a model ordrawing and description to this office.
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 We shinkoros, on the converse of FAND SETNILSTREERS, opposite the United States Patent Office. This office is under the general superintendence of one of the firm, and is in duity commineation with the Principal Office in New York, and personal attention will be given at the Patent Office to all such casesas may require it. Inventors and Others were very extensively engaged in the preparation and securing of Patents in the various European countries. For the transaction of this business they have Offices at Nos. 66 Chancery Lane, London; 29 Boulevard St. Martin, Paris, and 28 Rue des Eperonniers, Brussels. We think we may safely say that three fourts of all the European Patents secured to American citizens are procured through our Agency.
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ur Agency. Inventors will do well to bear in mind that the English law doe to limit the issue of patents to inventors. Any one cantake out a

not limit the issue of patents to involve the proper course to be patent there. A pamphlet of information concerning the proper course to be pursued in obtaining patents through their Agency, therequirements of the Patent Office, &c., may behad gratis upon application at the Principal Office or either of the Branches. They also furnish a Circu-lar of Information about Foreign Patents. The annexed letters, from the last three Commissioners of Patents, we commend to the perusal of all persons interested in obtaining Patents:-

Patents: Messrs

ests of your employers. Yours, very truly, CHAS. MASON. Immediately after the appointment of Mr. Holt to the office of Postmuster-General of the United States, he addressed to us the subjoine dvery gratifying testimonial:-Messrs. MUNN&CO:.-It affords me much pleasure to bear testi-mony to the able and efficient manner in which you have discharged your duties of Solicitors of Patents while I had the honor of holding the office of Commissioner. Your business was very large, and you sustained (and, I doubt not, justy deserved) the reputation of en-ergy, marked ability and uncompromising fidelity in performing your professional engagements. Very respectfully, Your obedient servant, J. HOLT.

Messrs. MUNN & Co.:-Gentlemen : It gives me much pleasure to say that, during the time of my holding the office of Commissioner of Patents, a very large proportion of the business of inventors be-fore the Patent Office was transacted through your sgency, and that I have ever found you faithful and devoted to the interests of your clients, as well as eminently qualified to perform the duties of Patent Attorners with skill and accuracy. Very respectfully, Your obedient servant, WM. D. BISHOP. Communications and remittances should be addressed to

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STEVENSON'S JONVAL TURBINE WATER Wheels, which gave a useful effect of 9077 per cent of the power employed at the latetrial of Water Wheels at the Fairmount Works, Philadelphia, March 9, 1860, are manufactured by J. B. STEVENSON, Novelty Iron-works, New York 82°

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