OFFICIAL REPORT OF PATENTS AND CLAIMS

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Issued by the United States Patent Office,

FOR THE WEEK ENDING AUGUST 27, 1867. Reported Officially for the Scientific American

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On filing each Caveat
On filing each application for a Patent, except for a design
On issuing each original Patent
On appeal to Commissioner of Patents
On application for Reissue
On application for Extension of Patent
On granting the Extension
On filing a Disclaimer
On filing application for Design (three and a half years)
On this a similarities for Design (unues means)

In addition to which there are some small revenue-stamp taxes. Residents of Canada and Nova Scotia pay \$500 on application.

Pamphlets containing the Patent Laws and full particulars of the mode of applying for Letters Patent, specifying size of modelrequired, and much other information useful to Inventors, may be had gratis by addressing MUNN & CO., Publishers of the Scientific American, New York.

68.027.-FISH HOOK.-Francois Angilard. Rovan. France.

05,027.—FISH FIOOK.—FTARCOIS AIRGINFU, ROYAIL, FTARCE, 1st, I claim, in fish hooks, the arringrement of the line, I, and holes, e., relatively to the two branches, a f, jointed together at the point, b, above the hole, o, substantially as and for the purpose herein specified. 2d, I claim, in connection with the above, the spring catch, c, arranged as specified, adapted to hold up the hinged branch, i, of a double-branched fish look, and to release it with a very slight pull on the line, I, substantially as and for the purpose herein specified. 68,028.— COMPOUND FOR PURIFYING SPIRITS AND OTHER LIQUIDS.—Pierre Joseph Badoux. New York city.

bS,028. — COMPOUND FOR FURIFING OFFIRITS AND OFFICE LIQUIDS.—Pierre Joseph Badoux, New York city.
ist, The composition herein described, for purifying and discoloring spirits and other liquids, substantially as described.
2d, The combination of sulphur, lime, sulphate of zinc or iron, sulphate of baryta, and any acid or acids, as nitric, muriatic, or other mixture.
3d, The combination of bialphate of lime, sulphate of zinc, and sulphate of bismuth or iron, for the purification of spirits.
68,029.—HINGING UOVERS TO TOPS OF COOKING STOVES.— Chas. I. Ball. Keokuk. Lowa.

Chas. J. Ball, Keokuk, Iowa. I claim the application to cooking stoves of covers or lids turning or revolv ng horizontally about a center outside of the apertures, and constructed water the galaxies.

ng horizontality about a center outside of the apertures, and constructed sunstantially as specified.
68,030.—FRUT PICKER.—A. T. Barnes (assignor to himself and N. M. Barnes). Tiffin, Ohio.
1st, The combination of the spring, E, fixed and movable jaws, and sack or fruit receiver, D, all arranged and operating substantially in the manner and of the purpose described.
2d, The use of the spring, E, which is applied to the fixed and movable jaws substantially in the manner and for the purpose described.
3d, The use of the spring, E, which is applied to the fixed and movable jaws substantially in the manner and for the purposes described.
3d, The manner, herein shown and described, of guarding the spring, E, when arranged within a recess, formed substantially as explained.
68, 031.—METHOD OF PROPELLING SLEDS BY HAND.—J. A. Bartlett and F. Walman, Orfort ville, Wis.
I daim a hand-sled when constructed with a system of levers attached thereto to be operated by hand tor propelling and steering the same, substantially as explained.
68, 032.—METOM.

ially as set forth. 8,032.— PLOW.—Alfred C. Belt, Goresville, Va. 1st, I claim the moldboard, C, made in the form shown and described, and rovided with a cutting edge extending to or nearly to the plow beam, in the ianner and for the purpose set forth. 2d, The grooved reversible share, G, constructed and operating substantial-re a described and the share, G, constructed and operating substantial-

by a described. The round adjustable self-sharpening extension point, H, operating as

36, The extension, double-reversible cutter, E, arranged and operating as described.
36, The extension dojustable self-sharpening extension point, H, operating as described.
36, The taise share for securing the removable cutter, share, and point in place, as described.
36, The combination of the reversible cutter, reversible share, and adjustable extension point with the false share and moldboard, in the manner and for the purpose substantially as described.
36, METHOD OF MAKING CORES FOR PIPE CASTING.— William E, Bird, West Bridgewater, Mass.
164, The combination of the reversible cutter, reversible share, and point in place, as described.
36, 303.—METHOD OF MAKING CORES FOR PIPE CASTING.— William E, Bird, West Bridgewater, Mass.
164, 164. West Bridgewater, Mass.
165, 0023.—METHOD OF MAKING CORES FOR PIPE CASTING.— William E, Bird, West Bridgewater, Mass.
164, 164. Oscillation and arrangement of the platen with the adjustable revolving core spindle by causing the said spindle to roll over said sheet of core material, used and in or its mechanical equivalent, made substantially as described and for the purpose set forth.
36, U34.—CHURN.—Thomas BOgan, Lacon, III.
184, I claim the combination of the treadle, H, woid, I, and gear wheels, J K, or their equivalent, with the paddle wheel, K, arranged and operating substantially as herein specified and shown.
26, U claim the emboryment of sharkskin, dog fah skin, or shagreen dressed hides, as a covering for rollers of cotton gins, substantially as adescribed.
33, The arranged and operating substantially as described.
34, The arrangement, described and shown, or adjusting and operating clearers, E, conssuing of plot ping, g, fixed in a slot of the frame by screw, n, and slot the purpose described.
34, The arrangement, described and shown, or adjusting and operating clearers, E, conssuing of plot operating as bestribed.
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described. sth, The arrangement of fans, M or N, with toothed cylinders, in a cotton cleaner, all operating substantially as described. 88,036.—WASH BASIN.—William Bradley, Lynn, Mass. I claim the combination of the wash basm and soap box or receptacle, at-tached together, as specified. 88,037.—EGG BEATER.—George E. Bridger, Milwaukee, Wis. Joint again of the with apport Loved port K bester C obst D pinlon

68,037.—EGG BEATER.—George E. Bridger, Milwaukee, Wis. l claim cylinder, B, with support, I, and post, K, beater, C, shaft, D, pinion, E, shaft, F, cog wheel, G, and crank, H, arranged and combined substantial-ulaly as and for the purpose described.
60,038.—STEAM-GENERATOR WATER GAGES.—Augustus P. Brown, New York City. Antedated June 11, 1867. 1st, I claim the arrangement of se facting valves, F F1, between the ends of the glass tube, B, ot a water gage, and the steam boiler to which said gage is attached, substantially as and for the purpose described. 2d, The springs, b bi, in combination with the valves, F F1, seats, a a1, and tube, B, constructed and operating substantially as and for the purpose set forth.

forth. 34, The disks, c c1, on those ends of the valve stems which face the ends of the glass tube, B, substantially as and for the purpose described. 4th, The rod, d, and handle, c, in combination with the valve, F, seat, a, and tube, B, constructed and operating substantially as and for the purpose described.

68,039.-WATER WHEEL.-Wm. F. Browne and A. J. Hoyt,

68,062.—BALING PRESS.—George B. Garlinghouse, North 68,062.—BALING PRESS.—George B. Garlinghouse, North Madison, Ind. 1st, Iclaim the abutment, F, capable of being set forward in the box, and supported by strut, X, in the desired combination, with the beater, E, and its described or equivalent accessories. 2d, The arrangement of gravitating toggle, H H, II'i, J K, with the wind-lass, Q U V W, and horizontally or nearly horizontally moving beater, F, substantially as set forth. 3d, In combination with the elements of the 2d clause, I claim the auxiliary toggle, H'' i J K L U, and sheaves, M N, for the purpose explained. 4th, Constructing the pressing heads of a baling press, with passages, 4, of size large enough to admit either or both hands and arms to the bottom of said "passages," for the object stated. 5th, The provision of the beam, 4, in combination with the hinged doors, 1 and 2, and catch, 5, and spring latch, 7. torth. 2d, The pulley, I, arm, K, and link, K', as arranged in combination will the gate, B, for the purpose and in the manner as described. 3d, The levers, L' and M, weighted lever, N', and rod, a, arranged in com-bination with the carrier, E F', and pulley, J, when operated in the manner and for the purpose set forth. 68,040.—Tool for Clinching Nails in Horseshoeing.-David W. Bush, Clarence, Mo. I claim the combination of the arms, A1, the jaw, B, jaw, C, lip, e, springs, D, and stops, di, as and for the purpose herein set forth. and for the purpose set forth.
68,085.—MACHINE FOR PICKING AND HUSKING CORN.—Silas R. Kenyon, Greenville, R. I., assignor to himself and Wilton C. Jeffers, New York City.
1st, I claim forming the hopper with an inclined bottom, having a central elevated portion that forms two fronghs, on line with the pairs of hosking rollers, fand a, bigner that the delivery of the ears endwise, to such pairs of hosking rollers, a specified.
2d, I claim placing the rollers, fand h, higher than the rollers, g and i, so as to insure the rotation of the ears as they pass endwise along such pairs of rough as set forth.
3d, I claim the revolving bar, K, applied above the rollers, and ho prevent ears of corn passing down the space between these rollers, and estimating a shown and formed, with elastic grooved surfaces, to one or both rollers, of each pair, for the purposes set forth.
5th, I claim the adjustable, detaining strips, n, applied in the manner specified, in combination with the pairs of inclined husking rollers, for the purposes set forth. 68,041.-ELECTRICAL APPARATUS FOR PREVENTING INCRUS-68,041.—ELECTRICAL APPA RATUS FOR PREVENTING INCRUSTATION OF STRAM BOILERS.—Samuel G. Cabell. Quincy, Ill.
1st, I claim the external chamber, C, attached to the steam boiler, when provided with a stop cock to cat off or regulate its communication therewith, for the purpose specified.
2d, In combination with the said chamber, C, a rod. F, constructed with points, G, arranged within the chamber and invulated therefrom, in the manner substantially as and for the purpose set forth.
3d, In combination with the chamber, C, and rod, F, constructed with points G, arranged within the chamber and insulated therefrom, in the manner substantially as and for the purpose set forth.
3d, In combination with the chamber, C, and rod, F, constructed with points G, arranged within the chamber and insulated therefrom, said rod being a simple conductor, a permanent maznet, or composed of two dissimilar metals, substantially as and for the purpose described.
68,042.—HEMORRHOIDIAN.—R. A. Cameron, Valparaiso, Ind. I claim the ellipsoidal bulb. A, having the propues set fortb.
68,043.—ATTACHMENT FOR CLOTHES WHINGER.—C. L. Carter, Union City, Ind. 68,063.-LIME KILN.-Luther Gibbs, Tremont, Ohio. I claim a kiln for burning lime, when constructed with two furnaces, B B, and a central fire chamber, D, In continuous line across the kiln, and with fues, D, in the corners of the fire chamber, and with a kettle, F, of greater longitudinal measurement than the diameter of the cupola, E, and furnished with three draw flues, G G Q, said parts being constructed and arranged flues, D, i longitudi with thre 68,064.—MILLING TOOL.—A. W. Gifford (assignor to E. A. Bayley and Moses Bayley), worester, Mass. 1st I claim a milling tool, constructed and operating substantially as set Cach pair, for the purposes set form.
Sth, I claim the as justable, detaining strips, n. applied in the manner specified, in combination with the pairs of inclined husking rollers, for the purposes set forth.
Sth, I claim the extripping bars or knives, q, fitted adjustably as set forth, in combination with the pairs of husking rollers, as set iorth.
Tth, I claim the combination of the guards, o, inclined husking rollers, hopper hoards, m, and bar, k, to inclose the proper position of the earl in passing endwise down upon the inclined husking rollers, as set forth.
68,086.—Foot REST FOR STOVES.—J. H. Keyser, N. Y. City.
1st, I claim an open work foot rest, which is constructed with annular tapering flanges, as a new and improve article of manufacture.
68,087.—UNITING EDGES OF HOSIERY GOODS.—Edward E. Kilbown, New Brunswick, N. J. ist, I claim a milling tool, constructed and operating substantianty as our forth. 2d, The combination with the hollow shank, A, and head, B, of the gage plate, D, substantially as and for the purposes described. 3d. The combination with the head, B, of the swivel arm, F, and cutter, E, substantially as and for the purpose set forth. 4th, The combination with the cutter, E, of the adjusting screw, 4, arranged substantially as and for the purposes set forth. 5th, The combination with the cutter, E, and projections H' and J, of the head, B, of the adjusting screws, H and I, substantially as and for the pur-poses set forth. ter, Union City, ind. I olaim the arrangement of the saturator, a, with the wringer, ashereinde or ibedfor the purposeset forth. 68,044.—KILN FOR DRYING AND PREPARING PEAT.—Samuel Chapman, Newark, N. J. Chapman, Newark, N. J. lat, I claim the mode of desiccating, compressing, and extracting the ole-aginous, bituminous, resinous, or other similar constituents, from peat and other substances, by the continued application of heat only in a tight cham-ber, substancially as set forth. 2d, The combination, within an artight chamber, of a heating apparatus, suitable suports for the material to be desiccated, and condenser for collecting posesset forth. 68,065.—GANG PLOW.—S. I. and G. M. Gillham, Carlisle, Ill. We claim the bars, H H, embracing the beams, D D, and operated by the

and carrying off water evaporated, substantially as and for the purpose set forth n. , The combination of the roof, D, troughs, D1, well, E, and pipe, F, sub-tially as and for the purpose set forth. b, The combination of the stove or furnace, H, and pipes, I, arranged in toon to the airtight chamber and one another, substantially as set stantially

relation to the air-tight chamber and one another, substantially as set forth. 5th, The combination of the stove or furnace, H, and pipes, K, arranged in relation to the air-tight chamber and one another, substantially as set forth.

forth. 6th, The combination and arrangement of drying frame, C, troughs, Cl, and well, M, substantially as and for the purpose set forth. 7th, The process for drying and compressing peat by the continued applica-tion of heat alone, in an air tight chamber, substantially as set forth. 68,045.—VAPOR BURNER FOR HEATING.—S. Child, Jr., and R. A. Concluded Guidancerta Guardia Utild, In. Matterson Mathematical Sciences and Scienc

68,045.—VAPOR BURNER FOR HEATING.—S. Child, Jr., and R. A. Copeland (asign orso to Samuel Child, Jr., and R. A. Copeland (asign orso to Samuel Child, Jr., Baltimore, Md. 1st, In apparatus, as herein described, we claim the method of regulating the supply of fluid to the retort, by locating the opening through which the oil enters the retort, so that it shall be above the level, both of the valres for regulating the flow of the oil from the reservoir, and of that portion of the supply pipe between the said valve and the retort, substantially as de-scribed. 2d, In combination with one or more supply pipes, communicating with the retorts or vaporizing chambers through openings, arranged as described, we claim a regulating valve or cock, or equivalent device, piaced at any point between the said supply pipes and the main or reservoir pipe, but so that it shall be below the level of the said openings whereby the flow of ci to each and every retort may be simultaneously regulated, substantially as shown and set forth. 3d, In combination with the pipes and main yalve cock, arranged relatively

and set forth. 3d, In combination with the pipes and main valve cock, arranged relatively to each other, as described, we claim the check valves, located in the respect-ive openings through which the oil enters the retorts, so that by the move-ment of the main valves the said check valves shall operate automatically to open or close the entrances to the retorts, substantially as herein shown and set forth.

open or close the entrances to the retorts, substantially as herein shown and set forth. 4th, We claim enclosing the supply pipe within a tubular jacket which car-ries the retorts, or itself constitutes the chamber in which the oil is vapor-ized, the said pipe and jacket being disconnected and separate, so as to form between them a continuous annular space in which the vaporized fluid is held, substantially as and for the purposes shown and set forth. 68,046.—ANIMAL TRAP.—Greville E. Clarke, Racine, Wis. I claim the combination and arrangement of the pivoted platform, hthe piece, F, the strips or rods, E and D, and the door, B, when constructed and opprating substantially as set forth. 63,047.—W EFDING HOE.—Eleazer M. Conkling, Parma, N. Y. 1st, I claim the combination of the coulter and keel, formed in one piece, with the blade, B, all constructed and arranged substantially as described. 24, The blade, B, having its front edges substantially as described. 3s described.

-CUTTER HEADS FOR PLANING MACHINES.-Mathew 68,048

F. Connett, Ladoga, Ind. I claim a cutter head for turning plow handles when constructed with the rives, B s, which are so arranged as to have a central space to limit the enertration of the cutters and guides at the edges of the cutter head, as and

for the purpose specified. 68,049.—CHURN DASHER.—Jacob J. Cumming, Independ.

68,049.—CHURN DASHER.—Jacob J. Cumming, Independence, Mo.
Iclaim a churn dasher combining in its construction the following elements:-The concave or dished bottom, the vertical openings, D. the diagonal openings, E. the lower flange, G. and the upper downwardly curved flange, F. sald parts being arranged substantially as set forth.
68,050.—HAND SEED FLANTER.—H. V. Davis, Amherst, assignor to Benjamin whiting, Hollis, N. H. 1st, I claim the combination with the wheel, E, and shaft, D, of the staple, C, and pin-d, substantially as set forth.
2d, The combination with the seed box, C, and handle, A, of the grooved guide place, I, plow, J, lever, K, and covering device, M g and h, substantially as and for the purpose set forth.
3d, A hand seed planter, all the parts of which are constructed and combined together for operation, substantially as and for the purpose set forth.
1 Claim the medicine prepared substantially as herein described.

I claim the medicine prepared substantially as herein described. 68,052.—CONSTRUCTION OF R BBER ROLLERS FOR COTTON

68.053.—Shutter Fastening.—Benj. K. Dorwart (assignor

68,053.—SHUTTER F'ASTENING.—Benj. K. Dorwart (assignor to bimself and Frank Stahl). Lancaster, Pa I claim the curved bolt, C. secured within the shutter between lucz, B, on a base plate, A, one end of the bolt to pass through an open slot in the bed plate, and the other end provided with a trigger, D, in combination with the slotted stop plate, F, and shouldered wall staple, H, all arranged and operated in the manner and tor the purpose specified.
68,054.—CLOTHES DRYER.—John H. Doughty, N. Y. city. 1st, I claim the metallic thinble, c, in combination with the uprights, a, of a clothes-horse composed of two or more sections, substantially as and for the purpose described.
26, The caps, e, and serve pivots, f, in combination with the uprights, a, of a clothe shorse, constructed and operating substantially as and for the purpose set forth.

pose set lotal. 68,055.—Apparatus for Exploding by Electricity.—Jabez

68,055.—APPARATUS FOR EXPLODING BY ELECTRICITY.—Jabez B. Dowse, Lockport, Ill. 1st, I claim the mode of fixing simultaneously, by electricity, two or more charges of explosive material by the application of two or more inductors, so arranged that one shock or current of electricity in passing simultaneously through the primary coils of such inductors, induces in the secondary coils of such inductors, simultaneously, separate secondary shocks or currents of electricity, each of which said secondary shocks or currents is made to fire separate charges of texplosive ematerials simultaneously. 2d, The explosive compound, copper amalgam, consisting of finely divided copper and fullminate of mercury intimately mixed together with a liquid such as water.

water. .- CULTIVATOR. - Reuben A. Eby, Upper Leacock 68.056.

68,056. — CULTI VATOR. — reduced in. Log, Cprodent Township, Pa. lst, I chim the combined levers, Brr, as constructed and arranged for shifting two onlivators in unison, for the purpose and substantially in the manner specified. 2d, In combination with my combined shifting levers, Rrr, I also claim the application of two separate cultivators attached to adjustable brackets, D, beneath a two-wheeled truck, substantially in the manner and for the pur-pose specified. 3d, In combination with adjustable brackets, D, I claim the arrangement of the combined adjustable scorers, x, on the Irame, zi, when constructed and applied in the manner and for the purpose specified, together with the use of the hoppers, crank and pulleys, all combines, substantially in the man-ner shown and set forth. 68,057 — LUIRRICATOR FOR SHAFTING.—James G. Edgell, 68,057. - LUBRICATOR FOR SHAFTING.-James G. Edgell,

Brooklyn, N.Y., Brooklyn, N.Y., st, Iclaim the plug, C, provided with an opening in its end to communicate th plue, F, and a cup, a, to receive and discharge oil as and for the purpose sciled. 1st with

ecined. Al, The arrangement of the shaft, G, with its screw thread, E, and pulley. with the wheel, D, upon plug, C, substantially as and for the purpose set

68,058.—ORE ROASTING FURNACE.—G. B. Field, N. Y. City.

68,058.—ORE ROASTING FURNACE.—G. B. Field, N. Y. City. 184, 1 claim the plate, or shelf, B, made hollow for the admission water or steam, and composed of two parts, by; connected by the pipes, cc, when constructed and used, substantially as and for the purpose specified.
2d, The orifices, E in hollow shelves used in the lishele of revolving ore roasting furnaces, for the purpose of cleaning the internal chambers of the shelves, substantially as described.
68,059.—SHOE FASTENER.—John U. Fiester, Winchester, O. 1 claim the double revolving concave hinge, AA', and B, constructed and operating as described, and for the purposesset forth.
68,060.—CHURN.—G. W. Fowler, Jenner's Cross Roads, Pa. 1st, I claima churn, having two horizontal parallel dasher shatts, provided with radial aum surraced to strike lo pairs alternately in the same plane, said shafts being provided with plnions, operated by the gear wheel, G, hav-ing teeth stranged on it, both internally and externally. 68,061.—BELT SHIFTING DEVICE.—A. M. Freeland, N.Y.City. said shafts being provided with pinnons, obstated by an extended of the second state o

shing plate, H2, and disk, 1', belta king valve, A, support, S, H H, Statt, J2, and cutch, K, or their equivalent, all substantially as herein described and represented. 4th, The combination with the valve, B2 B3, of the levers, b b, and oscillat-ing arm, A', substantially as described, and for the purpose specified. 5th, The combination with the oscillating valve, A, and chambers, B B, of the titing trough, F, arranged and operating substantially as described. 6th, In spirit meters, a filter or screen to permit the passage of mash, beer, or solid matter, into the meter, substantially as described. 6th, In spirit meters, a filter or screen to permit the passage of mash, beer, or solid matter, into the meter, substantially as described. 6th, OS2.—HAND CATCH.—J. P. R. James, Pepin, Minn. I claim the body, A, constructed as described, and provided with the catches, B B, and spiring, O, substantially as and for the purpose specified. 6th, We claim the combination of the curved beam, D, adjustable or sliding saddles, F, and acrew, G, having right and left hand threads, all for operation together, substantially as and for the reversible tail, u, or the equivalent of these devices, for operation of the saddles, F, the traveler H or H', and upper and bower rods, Ig, substantially as herein set forth. 6th, Cathe, essentified as pacified. 3d, In combination with the beam, D, sheing saddles, F, the traveler H or H', and upper and bower rods, Ig, substantially as herein set forth. 6th, Cathe, Carate, M, Charker, Huntington, Ohio. 1st, I claim the carriers, E', provided with cams, G G', and schoulders, H H', in combination with the roge, J, and pulky, I, as and for the purpose set forth. 2d, the child, I, arm, K, and link, K', as arranged in combination with the set of the horized and bower rods, Ig, substantially as herein set forth. Claim the two belt shifting forks, connected and pivoted to a swinging arm, or sector, for simultaneous joint operation, substantially as described, whereas while the one belt is being moved on or off the fast pully, the belt controlied by the other fork has but a slight motion, and is retained to its run on the loose pullex_restartially as herein get forth. 05,039.— WATER WHEEL.— WIN. F. Browne and A. J. Hoyt, Washington, D. D. We claim the combination of an inner centrifugal or reaction wheel, H, and outer wheel, I, which discharges downward and below the inner wheel through buckets, s, that curve downward and backward, and the discnarge apertures of which are of such size as to keep the wheel filled with water, substantially as and for the purpose herein specified. We also claim a valve, N, arranged in the induction pipe, D, between the valve, or gate, and the wheel, and operating substantially as and for the pur-pose herein set forth.

lever, G, arranged in combination with the frame, A, in the manner substantially as and for the purposes set forth. 68,066.—PAINT BRUSH.…II. B. Gillman, and H. S. Beamish, Milford Mass. We claim the combination and arrangement of the conical case, a, with the head, b, fastened in it, and handle, A, screwing through it, and carrying the cone e, fastened to the handle, A, screwing through it, and carrying the cone e, fastened to the handle, A, screwing through it, and carrying the cone e, fastened to the handle, A, screwing through it, and carrying the cone e, fastened to the handle, A, screwing through it, and carrying the cone, fastened to the handle, A, screwing through it, and carrying the cone, fastened to the handle of the foraminous conical dasher, A, with the tubes, C C, substantially as and for the purpose specified. 2d, The tubes, U C, excending from the bottom of the dasher to the socket, B, and connected with the latter through the passages, c, substantially as described.

23, 16 tubes, C. exclusing from the bottom of the asset to the source, B, and connected with the latter through the passages, C. substantially as described.
68,068.—MEAT CUTTER.—John C. Haefele, N. Y. City.
1st, I claim in a meat cutter, such as described, the method of plvoting or hinging the system of levers to the knives, at a point vertically above the said knives, and equidistant or thereabouts from the ends of the same, as and C the combination with one or more segmental knives, of a system of levers to the knives at a contral point vertically above the same, and hung in the frame of the machine in such manner that the levers immediately connected with the knives shall be parallel, or nearly so, with the suitace of the block over which they move, as and for the purposes here-in shown and setforth.
3d, The combination with the vibratory and rocking cutters of the lateral guides for mainshift the suitactures in the said plane, while in operation, as herein shown and setforth.
3d, The combination with the vibratory cutters, their actuating mechanism and lateral guides, arranged and operating as herein described, of a tub or block, revolving on its center, substantially in the manner and for the purposes shown and specified.
5th, The combination with the cubratory cutters of the guides provided with recesses forming the plvotal points upon which the cutters turn at the end of each stroke, as and for the purposes set forth.
5th, The combination so that the tub shall be rotated during the linex, of mechanism, for vibrating the said cutters, and rotating the purposes form.
5th, The combination with the cutters are of segmental form, and operates a described, of a tub broke, of a cub shall be cutter in which the cutters and for the purposes set forth.

between the violations of success of the termination of the lawed reciprocating plate, and vibrating arm open which it is mounted, with the shaft and cam for actuating the said plate, substantially in the manner and for the purposes specified. Sth, The combination of the reciprocating plate and pawls, and the ratchet and plation operating together as described, with the meat tub or block, under the arrangement ferein shown and specified.

under the arrangement herein shown and specified. 68,069. — COMPOUND FOR PRESERVING WOOD.— Smith T. Harding, Morrison, Ill. I claim a compound composed of the within-named ingredients, in or about the proportions as set forth, for the purpose of kyanizing wood, substantially as herein described.

68,070.—CORN PLANTER.—Samuel Harpster, Center Hall, Pa.

OCOVO.—CORN I LANTER.—Sallut Halpstel, Cellut Hall, 1a. Iclaim, in combination with the brushes and fanced brush head, the slide, H, having a central and side holes counter sunk to prevent the grains from weiging therein, substantial lys a described. I also claim, in combination with the brush head, and seed slide as de-scribed, the furrow openers, M N N, and seed duct, K. and coverers, O O, ar-ranged and eperating as and for the purpose described and represented. 68,071.—Bow DRILL STOCK.—D. Frank Hartford (assignor to birges) for defound Typebull South Beaton Mess

to himself and Edmund Tarbell), South Flank Haithoff (assignin to himself and Edmund Tarbell), South Boston, Mass. I claim the combination of the cord pulleys, A A', pawls, B B, ratchet, C, with the mandrel, D, and handle, H, when the whole is constructed as de-scribed, and for the purpose set forth.

scribed, and for the purpose set forth. 68,072. — COOKING STOVE.—L. W. Harwood (assignor to Fuller Warren and Co.), Troy, N. Y. I claim the suspended fire box. having an open frontspace, and with the oven space ext nding and up behind it, in combination with the dumping grate and ash pit, the whole arranged to operate as specified, for the purpose set forth.

set forth. 68,073.--MEDICINE CASE.-J. R. Haynes, Newport, Ky., and A. F. Worthington (assignors to Smith & Worthington), Cincinnati, O. 1st, I claim the provision in a medicine case of one or more sliding, and folding via racks, substantially as set forth. 2d, The provision upon such racks of the ledges, FF', for the purpose set forth

forth. 68,074.—MECHANICAL MOVEMENT FOR WORKING SAWS, ETC.

68,074.—MECHANICAL MOVEMENT FOR WORKING SAWS, ETC. —Edward Healy, Chicago, Ill.
1st, I claim the combination of a system of levers, H, with a flexible connection, J, substantially as and for the purpose set forth.
2d, The arrangement of the levers, H, rock shaft, I, flexible connections, J, and springs, K, substantially as and for the purpose set forth.
68,075.—HORSE RAKE.—Josiah D. Heebner (assignor to himself, D. S. Keebner, and I. S. Keebner), Nonittonville, Pa.
1st, I claim the combination and arrangement of the tripping-pole, F, pivoted between its extremities, with the arm, G, and horizontal rod, I, substantially as and described.
2d, The lever, M, having a shoulder engaging at the purpose specified.
69,076.—WINDOW BLIND.—W.P. Hoffman, San Francisco, Cal. I claim the window blind and anti-duster, composed of frame, A, V-shaped

I claim the window blind and anti-duster, composed of frame, A, V-shaped hroughs, B B, with straight or concave sides, and having the openings, a a, the partitions, b b, and tubes, E G, the latter for the purpose of filling and mptying the troughs, substantially s and for the purpose set forth.

the paradons, b, and those, b G, the latter for the purpose of hilling and emptying the troughs, substantially s and for the purpose set forth. 68,077.—DISTRIBUTING FERTILIZER.—Samuel Hoke, Mount Fleasant, Township, Md. I claim the shape and construction of the stirrers, H, with their lower wheels, G, operating in eccentric apertures B, when arranged and operated as herein described, and for the purposes set forth. 68,078.—BED BOTTOM —ZadOk Howe, Lowell, Mich. I claim suspending the slats, C, at each end, in the swings, ee, which are secured to the foot and head rails of the bed, as and for the purpose set forth.

orth. 38,079.—KNIFE AND FORK CLEANER.—Benjamin F. Hughson, old Spring, N. Y. 1st, I ciaim the several series of transverse holes, d, formed in the disks,), for the reception of the scouring material, substantially as herein set

forth. 2d, The two central disks, g g, having their peripheries extended beyond the dreamference of the main portion of the secourn g whe el, substantially as herein est torth, for the purpose specified. 3d, The combination with the sconring wheel constructed as set forth, of the trough, A, substantially as and for the purpose specified. 68,080. — CHECK VALVE FOR LIQUID METERS. — Elias S.

Hutchinson, Baltimore, Md. Iclam the application to a pump pipe of a thermo-dynamic valve, sub-stantially as described. 68,081.—LIQUID AND SPIRIT METER.—Elias S. Hutchinson,

05,051.—LIQUID AND SPIRIT METER.—ELIAS S. HUUCHINSON, Baltimore, Md. ist, I claim the provision in a liquid meter of the plate. H3, and disk, I', or their equivalents, the same torming a means for compensating for variations in density, substantially as described. 2d, The provision in a liquid meter, of the plate, H2, and expansible rod, H9, or their equivalents, the same forming a means for compensations for variations in temperature, substantially as set forth. 3d, The combination of the oscillating valve, A, support, J, H H', compen-sating plate, H2, and disk, 1', plate, h3, pin, j, wheels or disks, J J', shait, J2, and cutch, K, or their equivalent, all substantially as herein described and represented. 4th. The combination with the valve. H2 B3, ot the levers, b, h, and oscillating

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I claim the improved connection of hostery goods, consisting of the com-bination of the loops of the adjacent abutting edges of the acticle, by means of the chain stitch here/large/described. 68,088.—TRANSMITTING PLANS OF BATTLE-FIELDS BY TEL-

68,083.—IRANSMITTING FLANS OF BATTLE-FIELDS BY IEL-EGRAPH.—Thom as W. Knoz', New York City. I claim transmitting or giving plans of battle-fields, positions of troops, and topographical and other features of a country, by means of Inc angular or other divisions, marked on blanks of paper or other material, and num-bered in any agreed order only, as above set forth. 68,089.—WOODEN PAVEMENT.—P. Koch. New Haven, Conn. I claim the construction and arrangement of wooden paving blocks, in the manner and for the purgose described and set forth. 68,090.—STEP AND EXTENSION LADDER.—C. J. Komar, Wil-loughby, Ohio.

05,030.—STEP AND EXTENSION LADDER.—U. J. KOMAF, W 11-loughey, Ohio. lst, I claim the side rails, A, of the lower section, provided with longitudi-nal grooves, B B', pullers, D 19, opening, C, and togune, T, and the side rails, K, of the upper section, provided with longitudinal grooves, L L, roller, N, opening N, tongue, T, and hole, O, all arranged and operating in combina-tion with the cord, S, and windlass, F, in the manner and for the purpose anectified.

specified. 2d, The bars, H H', located and secured in the braces, G, in combination with the notches, P, of the side rails, K, operating as and for the purpose set

08,091.—CORN PLANTER.—Lewis Larchar, Utica, N. Y.

1st, I claim the tooth, I, constructed and operating substantially as described, for the uses and purposes mentioned. 2d, The said tooth, I, and the teeth, K K, one or more, in combination, for the uses mentioned

24. The said tooth. I, and the teeth, K K, one or more, in combination, the uses and purposes mentioned.
3d, The adjustment of the wheels, C C, and the hoppers, D D, relative to each other as described, by means of which the rows will be at equal distances apart, as described, and respectively. A structed and operating in combination, substantially as described, and for the uses and purposes mentioned.
5th, The lever, H, in combination with the pin or pins, H2, on the drum, C2, substantially as described, and for the uses and purposes mentioned.
68, 692.—CORD TIGHTENER FOR CURTAINS.—Thomas C. Lippincott. Philadelphia, Pa.

pincott, Philadelphia, Pa. I claim the combination of the sliding bar, A, constructed substantially as described, with the rack, B, by means of the too'h, b, of the bar, and the re-cessed teeth, c, of the rack, substantially as described, and for the purpose specified.

-CORK PRESS.-C. L. Lochman, Carlisle, Pa.

Iclaim a cork press, with one or both Jaws made to vibrate, either straight or curred, so that a rotary and squeezing effect is given to a bottle cork at the same time, substantially as specified. 68,094.—CHANNELING AND BEVELING MACHINE.—Ira Man-

5th, The knite holder, D, and the arc G, as shown and described. 68,095.—THRASHING MACHINE AND SEPARATOR.—Hugh W

68,095.—THRASHING MACHINE AND SEPARATOR.—Hugh W. Mathews, Chicago, Ill. I claim the combination of the rack. G G G, rakes, E, and conveyor, I, when constructed substantially as and for the purpose set forth. 68,096.—VAGINAL INYIGORATOR.—Morris Mattson, N. Y. city. I claim an instrument for washing and cleaning the vagina and for treating diseases of that organ and of the womb, having an outlet perforated or open cylind; and within such cylinder an injecting tube for a spray or jet, sub-stantially as and for the purposes set forth. 68,097.—Churuk.—John McKenzie, Portland, Me. 1st. I claim the dasher when composed of the hollow drum, m, inclined fingers, n. and adjustable washing roller, o, all operated by the removable shaft, a, as and for the purposes specified. 2d, The curved ventilating cover, B, constructed with the parts and applied as herein described and for the purposes set forty.

zo, The curved vehiliating cover, E, constructed with the parts and applied as herein described and for the purposes set forth, 68,098,—HED BOTTOM SPRING.—E. D. Merrian and S.Aldrich,

Colords.—Own.H. and Geo. W. Miller, West Maridan, Conn. We claim in combination with a hinged and swinging breach block, the ac-celtrariling lever, m. on said breach block, and the elector, d, on the pivot pin of the hingen for the purpose of giving a quick impulse to the elector, and through it to the cartridge case, to throw the latter out of the gun, substan-tially as described. 68,100.—CHURN.—Mortimore B. Mills, East Mendon, N. Y. Loleim the deshear D E Fig 2 when made so as to be actuated by the

I claim the dashers, D E, Fig. 2, when made so as to be actuated by the evers, C C, Fig. 1, and connections, E E, when arranged within the box, A s and for the purpose set forth. as and for 68 101 -

the purpose est forth. -MACHINE FOR GRINDING PEAT.-Simeon Mills, uo, 101.—JIACHINE FOR GRINDING PEAT.—Simeon Mills, lst, I claim the spirally-futedcylinders of rollers, E, whether conical or straight, so constructed and arranged that both are propelled in rotatory manner by the application of power to one without gearing, substantially as drearibed and for the purposes set forth. 3d, The grooved feed roller, a b, in combination with the fluted rollers, E, when constructed and arranged to operate as described and for the purposes set forth.

3d, the grouped net arranged to operate as described and to the rand with set forth,
3d, The spirally fated rollers, E, in combination with each other and with the growt died rollers, a h and mandrel, d, when arranged to operate in a close-fitting case substantially as described and for the purposes set forth,
68, 102.—PLOW.—Gilpin Moore (assignor to himself and Deere & Co.), Moline, III.
1st, I claim the plan or method herein described of a form corresponding to plays.
and board constructed of a form corresponding to the spine of the spine.

boards of plows. 24. A plow having its mold board constructed of a form corresponding with the form of the under surface of the furrow slice at the instant it is sev-ered from the earth, substantially as described. 68,103.—FRAME FOR WINDOW SCREEN.—Willim H. Nash, Reading, Mass. I claim as a new article of manufacture aframefor a window screen when constructed of the bars, D D'D", and the corner pieces, A, made sub-stantially as described.

68.104.

I claim the vertical adjustment of beams yy, in combination wi frame, constructed as described and for the purp Jse set forth, in conn with the mode of attaching the draft.

with the mode of attaching the draft. 68,105.—CAR COUPLING.—Geo. W. Noyes, Norwich, Conn. I claim the adjustable head, C, and pin, E, with its devices, L and M, for operating the same, all constructed and arranged as herein described and for the purposes set forth. 68,106.—CEMENT FOR ROOFING.—J. D. Numan, J. T. Wilkin-son, and E. W. Cock Lockboort N. V. assignment to J. D. Wilkin-

100,100.— UEMENT FOR INOUTING.— J. D. Pullial, J. T. WIRHITSON, AND E. W. COCK, Lockport, N. Y. assignors to J. D. Numan, Jas. T. Wilkinson, Jas. T. Wilkinson, Jas. T. Wilkinson, J., W. B. Chuse, and J. L. Ashlev. We claim the aforesaid cement for rooth: go, other purposes composed of the aforesaid substances or materials, or substantially the same, and which will produce the same intended effect.

68,107.—KNITTING MACHINE.—John Pepper, Lake Village,

(b), (10. — KNITTING inACTINE. — sound reprot, have or mage, N.H. ist. I claim in combination with an interior pivoted cam or switch, as lide or its mechanical equivalent, for raising or lowering said cam or switch, and thus changing the cam groove and lowering or raising the needles, for changing the machine from common ribbed to platted ribbed work, or vice versa, substantially as described. 2d, i also claim the revolving pin wheel, m, in combination with a station-ary pin or pins, for the purpose of moving an interior can or switch, and changing the traverse of the needles at that point for changing the machine from lighter to looser knitting or vice versa, substantially as herein de-vertied. rom

68.108.—CLUTCH SHIPPERS.—Frank J. Plummer (assignor to

R. Ball & Co.), Worcester, Mass. 1st, I claim the combination with the projection, E, of box, B, and tongue, of the siteted slide, F, and cap, I, substantially as and for the purposes as

set I arth. 24. The combination with frame. A. double slotted or grooved slide piece. 5. sizan, G. and clutch hub, L. of the box. Is, having a flaving. D, and projec-tions. E. and 4. a stranged and combined together for use substantially as set

bined, when arranged, adjusted, and operated with the bolt, F, beam, C, and axie, M, as attached to the frame or bars, G, with the regulating wheels, L, as herein described and for the purposes set forth. 68,115.—STEAM SLED.—John S. Rose, Hamilton Co., Iowa.

I claim the arrangement and combination of the adjustable knives, I, with the runners, A, when operated by the wheel, P, as herein described and for the purposes set forth. 68,116.—SHEATHING OF SHIPS' BOTTOMS.—François Louis

68,116.—SHEATHING OF SHIPS' BOTTOMS.—François Louis Roux, Toulon, France. Patented in France Jan. 23,1866. I caim the application of copper sheathing to ships or vessels constructed or plated with iton, in combination with interposed layers of insulating ma-terial, in manerand for the purposes substantially as herein set forth and represented in Figs. 17 to 24,07 the annexed drawings. 68,117.—FRESS.—Christopher E. Rymes, Somerville, Mass. 1st, I claim the improved hydraulic press constructed with the plunger so affixed to its frame as to be capable of being moved laterally with respect to its drum and pliston, substantially as and for the purpose specified. 2d, 1 also claim the combination of the centralizing plan and cavity, or the equivalent thereof, with the pliston and discharging pan of the hydraulic press.

3d, I also claim the dis harging pan as made with the abutments arranged within it, as and for the purpose specified.

68,118 -CONVERTING IRON INTO STEEL.-S. C. Salisbury,

New York city. I claim converting iron into steel, while the former is in a liquid state and it is delivered from the furnace in which the ores are reduced by the use and application to or passing through such liquid from a blast of steam or hydro-gen and oxygen heated to a temperature of from 700° to 800° Fah. or there-about, in combination trst with an air blast and afterward with carbon gas free from or obtained from hydro carbons free from sulphur, phosphorus, etc., and either with or without manganese.

etc., and either with or without manganese. 68,119.—APPARATUS FOR SUPPLYING GASES TO FURNACES.— s.C. Salisbury, New Yorkcity. I claim the combination of the generator, A, and exhaust chamber on mixer, C, with the tweer, E, or its equivalent, for generating and heating, mixing, and supplying to blast or other furnaces, hydrogen and oxygen gases or their equivalent, and carbon gas or other gases in connection with the air blast, for the purposes set forth. 68 120 — CAR COUPTYNC, P. H. Schurder, C.

blast, for the purposes set forth. 68,120.—CAR COUPLING.—P. H. Schuyler, Lyme, O. 1st, I claim the lever, C, dog, E, spring, a, and shaft, b', arranged and op-erating as and for the purpose set forth. 2d, The arm, I, s. at, D', spring, a, in combination with the link, F, as and for the purpose set forth. 68,121.—CARRIAGES HINGE.—C. E. Schwind, New York city. U claim the detended place on slide B. is combination with the sense.

I claim the detachable piece or slide, B, in combination with the two parts, A C, substantially as and for the purpose specified. 68,122.—RAILROAD RAIL JOINT.—Benjamin Scott, New

00,122.—KAILROAD RAIL JOINT.—Benjamin Scott, New Brighton, Pa 1st, 1 claim the combination of the two rigid parts, B B, of a divided clamp joint, constructed with jaws, b b, fitting closely around the base and neck of the rais and downwirdly projecting fianges, a s, meeting at their lower edges, D, and beyeled upward to form a space, i, between them, when used in connection with bolts, g, passed through the flanges, a s, above the ful-grain point, D, all as herein shown and described and for the purposes 2d, 1 further claim in combination with the above the state

124.—WHEEL CULTIVATOR.—W. A. Sisson, Sheffield, Ill.

I claim a wheel cultivator constructed so that the draft power shall be applied direct to the shovel frame, and the driver's seat mounted upon the car-riage frame, which is attached to the shovel frame at its forward end by a loose connection which permits said carriage frame to rise and fall with the undulations of the ground in any direction without affecting the operation of the shovel frame. 2d The frotton rollers, x x, at the forward ends of the carriage frame, in combination with the loops, H H, substantially as and for the purpose set forth.

combination with the loops, H H, substantially as and the legs, k k, of the forth. 3d, The perforated plates, P P, in combination with the legs, k k, of the driver's seat fitted so as to be inserted into said perforations for the purpose of adjustment as set forth. 4th, The handles, O O, at the sides of the shovel frame to enable the driver to raise said frame and free the shovels from the ground. Constant and the sides of the showed area of the showel frame to enable the driver to raise said frame and free the shovels from the ground.

-SORGHUM SUGAR EVAPORATOR.—A. B. Smith, Clin-

ton, Pa. ton, Pa. lst, I claim the arrangement of the transferring pipes, a b c, in connection vft, the yapor sting pans, so as to draw the sirup from the middle thereof, or where the greater ebuilition takes place therein, for the purpose herein specified. 2d. T

herein shown and described.
68,153.—COMBINED PEN AND ERASER.—W. F. Beaton, Phil-adeiphia, Pa.
1 aleim as combined reversible or invertible pen and eraser, constructed substantially as described.
I also claim the combination, substantially as described, of a combined pen and eraser, with a reversible holder.
I also claim the combination, substantially as described, of a combined pen and eraser, with a reversible holder.
68,154.—FRAME FOR THE GLASSES OF CARRIAGE CURTAINS.— 'William F. Beaton, l'hiladriphia, Pa.
Ist, I claim, as a rew article of marufacture, the glass and curtain holder, consisting of the concave convex plate, A, washer, l', and clips, B, construct-ed and arranged as described for the purpose set forth.
68,155.—WASHING MACHINE.—E. Beckwith, South Pass, III.
1st, I claim thamaner herein shown and described.
68,155.—WASHING MACHINE, E. Beckwith, South Pass, III.
1st, I claim thamaner herein shown and described.
2d, The cylindrical or partly cylind ial wash tub, A, when provided with slotted head plece, and orficated partitions, F, in combination with the up and down adjustable osciliating orrevolving roller, E, all made and ope-rating substantially as herein shown and described.
68,156.—PAD CRIMP PRESS.—H. H. Beers, Toulon, III.
1 claim to brank for pads having an adjustable die, B, all made ambtantially as derelbad. purpose specified and set forth. 68,128, --WRENCH.-Joseph A. Talpey, Somerville, assignor to himself and Mellen Bray, Boston, Mass. I claim the wrench herein described, provided with two sets of laws, the one rectangular with respect to the shank of the said wrench, the other slop-ing or at an inclination to the same, as and for the purposeherein shown and set forth.

Set forth.
68,129.—INDICATOR FOR WATER CLOSETS.—Henry K. Taylor, Icalam the combination with the latch holt or fastening to the door, of an indicator made visible from the exterior by the action of the fastening, sub-stantially as and for the purpose or purposes herein set forth.
68,130.—AxLE.—Henry T. Tichenor, Fort Branch, Ind. I claim the combination of the skeins. a, plate, z, bands, b b, collar, E, and cap, D, with pin, d, when arranged a d used with axle and hub in the manner and for the purposes specified.

68,131.—SNOUT RING FOR SWINE.—Miron G. Tousley, Ful-ton, assignor to Andrew and John P. Chaiser, Cardova, Il. I claim the hook or angle combining the lever, C, with its means of at-tachment, A, when constructed and used substantially in the manner and for the purposes set forth.

the purposes set forth. 68.182.-MACHINE FOR PULLING FLAX.-Samuel W. Tyler,

[58,132.—MACHINE FOR FULLING FLAX.—Samuel W. 1yter, Troy, N.Y. I claim for bay used in the start of the st

68,134.—CAR Spring.—Richard Vose, New York City.

68,159.—MEDICAL COMPOUND.—O. W. Diamonard, Zonarda, Wis.
I claim the medical compound made of the ingredients and mixed together in or about the proportions substantially as and for the purpose described.
68.160.—HORSE HAY FORK.—C. D. Blinn, Port Huron, Mich. Ist, Iclaim the prong, A, constructed with a socket for the reception of the removable handle, B, substantially merein shown and described and for the purpose set forth.
24. The combination and arrangement of the loop or ring, F, togele. D, and ropes, C E G H, with each other and with the prong, A, substantially as here in shown and described and for the purpose set forth.
68,161.—CLOTHES PIN.—H. T. Boutell, Springfield, Vt. Iclaim the two clamps, B, and the spring, C a, arranged and operating in the stock, A, as herein set forth for the purpose specified.
68,162.—MODE OF CLOSING BOTTLES.—T. S. Bowman, St. Louis, Mo. 1st, I claim a volute spring so constructed as that its top and base shall be in horizontal or parallel planes, and its inner coil be uniform in width with those succeeding it substantially as herein described.
2d, I claim also a volute spring constructed of a metallic bar gradually in-creasing in thickness outwardly from its center to its edges throughout its length, substantially in the manner herein set forth.

68,135.—PROCESS OE REFINING LEAD.—Oscar Wassermann,

Call, Prussia. Ist, I olaim treating work lead which has been desilvered by the aid of zinc with chloride of lead, substantially as and for the purpose described. 2d, Treating work lead which has been desolved by the aid of zinc with chloride of lead and alkalies such as soda or potash, substantially as and for the purpose set forth.

vertical movement of separate sections is avoided, as herein set forth for the purpose specified. 25. The sections of the brood chamber constructed as described consisting of the removable trames, P P, blind frames, N N P, sides, Z, and sections. y, all arranged and described and sliding over the bottom guides, S, and ho-tween the triangular side strips, R, as herein set forth for the purpose spect-fied.

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68,142.—Device for Attaching Chimneys to Lamps.—Jo-

seph B. Alexander, Washington, D. C. I claim the Sshaped lever, A, with its circular head working eccentrically upon the axle, D, and fitting exactly into the contraction of the chimney above the base rim, I, substantially as described, and for the purpose set borth

forth. The basis of this is the state of the set of the purpose set of the se

2d. The combination and arrangement upon the tree Tree tree to the sead. E. of the feed plate, D, whose forward cut pushes the cards to rough between the kines. C, and between the slats, b, of the rack, F, as herein set forth for the purpose specified.
3d. So arranging the knives, C, on the bars, a, that their cutting edges will be in a zig zag line for the purpose of decreasing the compression of the splint substantially as set forth.
4th, Providing the knives with concave cutting edges substantially as and for the purpose set forth.
68,145.—CIDER-MILL.—Robert C. Archibald, La Fayette, Ind. I claim the double endless apron, L L, in combination with the rollers, K K, constructed and arranged to operate substantially as set forth.
68,146.—CARD BOARD DRIER.—E. F. Bally, Holdemess, N. H. I claim the arrangement of the foraminous chamber or channels, the heating pipe or pipes, the carrier supporting frame or frame provided with inclined guides with each other and the alr chamber at either end, and the box, A, constructed and provided with doors and a vary thereto substantially as described and for the purpose specified.
68,147.—TRACH BUCKLE.—R J. Baker, Madison, Wis.
I claim the trace buckle when constructed and arranged as described consisting of the curv d sides, a a, having hivoted at their centers upon the uper side by means of the crank arm, i, the bar, k, to the under side of which the pins, n are secured, said war, k, adjusted to be raised or like pins, e, as here in shown and described.
68,148.—BALE TIE.—Arthur Barbarin, New Orleans, La.
68,149.—BALE TIE.—Arthur Barbarin, New Orleans, La.
68,150.—BUTT HINGE.—B. F. Barker, San Francisco, Cal.
1st, I claim the alia, A, when provided yith the sourd and shown upon the drawings, and used to 'asten the end of wire rope, or wire, in banding coton or other bales, substantially as herein described.
68,160.—BUTT HINGE.—B. F. Barker, San Francisco, Cal.
<li

24. Telaim the plate, A, in componential with the bards, substantially as described in combination with the scribed. 34. I claim the muffer substantially as described in combination with the butt as and for the purposes specificd. 68.151.—SHEEP RACK.—J. S. Beals, Alabama Center, N. Y. 1st, I claim so hinging the boards, D and E, together and combining them with hinged cleats d, that a sheep rack can be formed with either an open or covered hopper, or one that is provided with a cover for the sheep and with an open fixed rack, or which can be closed for the sheep if desired, as set forth.

forth. 2d, Extending the cleats, d d, so as to form supports for the boards, E E, and connecting the boards, D and E, at their edges, substantially as set forth. 3d, The boards, D and E, cleats, d d, revolving standards, B, and picees, A, rails, a, and pins, c, in combination with each other, all made and operating substantially as herein shown and described. 68,152, --PLOW, -J. S. Beals, Alabama Center, N. Y.

OS,152.—FLOW.—J. S. BEAIS, Alabamia Uchter, N. 1. Ist, Iclaim making the opposite ends of the share, D, equal to each other, so as to provide the same with double cutting edges, a a, substantially as and for the purpose herein shown and described. 2d, Securing the share, D, to the lower portion of a bar, E, which is ad justa-ble on standard, F, by means of set screw, c, substantially as and for the pur-pose herein shown and described. 3d, Securing the coulter, G, on the lower end of the same standard on which the supp Functuary share, D, is arringed, substantially as and for the purpose herein shown and described.

herein shown and described. 68,153.—Combined Pen and Eraser.—W. F. Beaton, Phil-

103/130.—I AD ORIMI I RESS.—II. II. DOUS, FORMUL, III. 1 claim a crimp or break for pads having an adjustable die, B, all made substantially as described. 68,157.—FILTER FOR REFINING SUGAR.—R. W. Bender, N. Y. City. Y. City. Iclaim the arrangement herein described for forcing the haud through the animal coal by means of live steam, acting on the said liquid in a monte-jus, connected and combined with the filter or filters, substantially as set forth.

Forth. Sector and combined which the Inter of Inters, substantially as set of 8,158.—PAINT CAN.—G. W. Bennet, New York City, assignor to himself, Geo. W. Peck and Chas. S. Bird. Ist, I claim the combination of the cross bar, B, having a screw hole formed through its central part with the upper part of the can, A, substantially as herein shown and described and for the purpose set forth. 2d, The combination of the cover, C, baving a groove formed in its lower side near its edge and having a screw, D, attached to its central part with the cross bar, B, and can, A, substantially as herein shown and described and for the purpose set forth. Eig. J. M. Combination of the cover, C, baving a groove formed in its lower is dependent of the bury of the set forth. Eig. J. M. Combination of the cover, C, baving a groove formed in its lower is the purpose set forth. Eig. J. M. Compound. Compound. Compound. Compound the set forth. Eig. J. M. EDICAI. COMPOUND.—O. W. Blanchard, Delavan, Wis.

Louis, Mo. 1st, I claim t he method of stopping hottles, substantially as described. 2d, The special constructing and combination of the bottle neck and stopple

2d, The special constructing and combination of the bottle neck and stopple B substantially as and for the purpose specified. 68,163.—BRUSH AND TOP OF MUCILAGE BOTTLE.—William

21. The combination with frame, A, double slotted or grooved side piece, E, glasp, G, and clutch hub, L, of the box. B, having a flange, D, and projec-	blowide of load and alkalies such as sode or notash substantially as and for l	00,103.—BRUSH AND TOP OF MUCILAGE BOTTLE.—William
E, man, G, and I arranged and combined together for use substantially as set	the purpose set forth.	Burnet, New York City.
fs, sharp, G, and clutch hub, L, of the box. Is, having a having a back projections, E and 4 4, arranged and combined together for use substantially as set forth.	68,136.—LAMP.—II. Weston, Towanda, Pa.	1st, I claim the use of a spring collar or washer on the handle of a mucilage
68,109.—PRUNING KNIFE, HOOK, AND SAW.—Roger W. Por-	I claim forming a recess or groove in the top of the lamp body around the	2d, The use of the same in combination with a spring and the cap of a mu-
tor Nashna N H.	opening which receives the lamp top with its wick tube, said groove having	cilage bottle.
I claim pruning hook, knife, chisel, and saw, constructed and arranged as	perforations from its bottom into the lamp substantially as and for the pur-	3d, The use of a tubular rubber spring in combination with a mucilage bot-
shown, in combination,	pose set forth.	tle all made and operating as described, or their mechanical equivalents. 68,164.—NURSERY LOUNGE.—S. Buttenheim, New York City.
68,110.—MACHINE FOR PULVERIZING THE EARTH PREPARA-	68,137.—CIRCULAR SAWING MACHINE.—Ralph V. Whiting,	104. — NURSERY LOUNGE.—S. Buttennein, New York City.
TORY TO PLANTINGJohn Prutzman, Hancock, Ill.	(assignor to D. B. Gurney,) Abington, Mass. I claim so arranging the weights which draw back the slide or carriage of	lst. I claim a combined lounge and night chair when made and operating substantially as herein specified and described.
I claim the combination of knives, shovels, and teeth, substantially as set forth, and secured in an inner frame which can be raised or depressed, to-	a heard sawing machine that when the carriage first starts to return the com-	2d, A combined lounge, night chair, and folding table when made and one-
with a large shovel or marker for laving out the ground, and detent.	bined weights pull in one direction and in aid of each other, but when the	l rating substantially asherein specified and described.
o, substantially as and for the purpose set forth.	carriage in as passed a certain distance and has withits load acquired quite a	3d, A combined lounge. night chair, folding table and bureau, when made
68,111,-FEEDING RACK FOR STOCKJ. C. Ramsey (assignor	momentum, the weights will act in opposition to each other and thus cease to give additional velocity to the carriage substantially as described and for	and operating substantially as herein specified and described. 4th, A comilied lounge, night chair, folding table, bureau and writing
to himself and S. M. England), Le Roy, 0.	the purpose set forth.	desk when made and operating substantially as herein specified and de-
Leight the combination and arrangement of the DOX, A, rack, B, springs	68,138.—Lock Clasp for UMBRELLA.—Andrew H. Whitney,	scriber,
E, slide, I, and ustable bottom, D', and loop or staple, H, for the purpose and	Portland Mame.	5th. A combined loun e, night chair, folding table, bureau and mirror, when made and operating substantially as herein specified and described.
in the manner burein set forth.	I claim the lock clasp for umbrellas combining the chamber band and	6th, A combined lourge, and folding table, the latter being so arranged as
68,112.—ADJUSTABLE PIPE JOINTS.—J. H. Rhodes, Brook-	spring as described.	to be concealed in a drawer, K, expanded or altogether removed from the
lyn, N.Y.	68,139.—GRATE FOR FURNACE.—Wm. A. Wilson and James	lounge, as set forth.
I claim a pire joint constructed of a hard-metal spigot, B, and hard-metal peil, D, buth of shape corresponding to the segment of a sphere, in combina-	Smith, Liverpool, Eng.	7th, A combined lounge and mirror when made and operating substantially as herein specified and described.
tion with the soft metal nacking, E, arranged as a fixture in the mouth of the	1st, We claim causing two or more of the bars of which a furnace fire grate is composed, to move together in one direction and then causing them to	8th, A combined lounge and writing desk, when made and operating sub-
hell and regular at its inner end. Or eage against a projection of stop, S, sub-	move back a less number at a time, substantially as and for the purpose here-	stantially as herein specified and described.
stantially as and for the purpose or purposes as herein set forth.	in set forth.	9th, A nursery lounge when made and operating substantially as herein
68.113MAKING THE EYE OF ELLIPTIC SPRINGSW. T.	2d, We claim in connection with the above the combination of parts herein	specified and described.
Bichards Bridgenort, Conn.	described, consisting of bars, a, drums, n r, and their attachments and opera- ting mechanism, i j k m, or their respective equivalents, adapted for causing	68,165.—CORN CULTIVATOR.—Andrew Canfield, Lyons' City,
let I claim the combination of the dies, g i and i, with the lever, D, or its	bars to move in the manner substantially as herein set forth.	Iowa.
equivalent, when they are constructed, arranged, and fitted to scarf the and		1st, I claim the adjustable extension guard to regulate the amount of earth
and partially form the eye, substantially as herein described. 2d, I claim the combination of the dies, n and r, with the head of the ram,	68,140,—Horse Rake.—John Zimmerman, Powhatan, Md.	applied to young corn.
n when the head is provided with a tonglie, o, and the die, h, has a slot of	I claim the reversible head, A, provided with the teeth, C, handle, h, and socket, e, journaled to the curve shafts, B, and having the runners, a, at	the purperson above set forth.
fecess, m, to receive the tongue and the whole 14 litted to produce the result	tached all constructed and arranged to operate as set forth.	3d, The principle of raising and lowering a seat by means of a joint in the
of finishing the eye, substantially as herein described,	68,141.—BEEHIVE.—Davis L. Adair, Hawesville, Ky.	support of the seat when used substantially as and for the purposes above set forth.
68.114.—COMBINED PLOW AND CULTIVATOR.—Anton Ro-	I claim the honey hox constructed as described consisting of the sections.	
mann and John Peterka, Wilton, Iowa,	D. provided with the projecting top and bottom pieces, F G, fitting the tops	68,166.—PORTABLE FENCE.—Peter Chandler, Olney, Ill.
We claim the torm and construction of the cultivator and harrow com-	and bottoms of the vertical pieces secured together by the strips, E, whereby	I claim the combination of the keys or gibs, C, constructed as described

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2d, The bars, G H, cylindrical upon the surface around with the hoop pass es, in combination with the parts of a cotton bale tie as shown and described 3d, Acotton bale tie constructed with lapping ends fitted as shown and pro-vided with bars, G H, slits, I I, periorations, F F, and hoops, E E, for the pur-pose set forth, CS, 108. — WRENCH. — T. D. Christopher, Madison, Ind.

1st. I claim the combination of the sliding thimble, D, the plate, E catch bar, F, and the spring, a, with a ratchet wrench substantially as an

the purposes set forth. 2d, 1 claim the same in combination with the screw, G, and nut, H, ar ranged substantially as shown and described on bar, e, of a ratchet wrench for the purposes set forth. 68,169.—HARROW.—Jacob Click, Springfield, Ohio.

ist, I claim constructing a harrow with a series of long curved and sharp edged teeth or knives secured to a rotating shaft, so that they may be de pressed to cut deeply into the ground, when desired substantially as and fo the purpose set forth.

beges to cutduciply into the ground, when desired substantially as and for the purpose set forth. 2d, A harrow constructed with the curved sharp-edged teeth, D D, and a series of long knife shaped teeth, E, secured to the rotating shaft, F, provid-ed with the levers, G G, by which said knives, E, may be depressed to cut deeply into the ground when desired aubstantially as set forth. 3d, In combination with the shaft, F, and levers, G G, the pawls, J J, and ratcheis, I I, substantially as and for the purpose set forth. 4th, In combination with the harrow, A, and the long seat, M, mounted thereon; the levers, G G, joined at their upper ends by the long connecting rod, N, as and for the purpose set forth. 5th, In combination with the harrow, A, the adjustable wheels, O O P, for the purpose of limiting the depth to which the teeth or knives may cut. 68,170.—FILTER FAUCET.—R. B. Coar, Jersey City, N. J. I claim the handle, f, attached directly to one side of the larger end of the tapering hollow plug, d, in combination with the removable cap, e, and filter-ing diaphragm, h, all arranged as and for the purposes set forth. 68,171.—MACHINE FOR CUTTING BERRY BOXES.—Chas. Colby, South Pass, III. Antedated Aug. 18, 1867.

08,171.—MACHINE FOR CUTTING BERRY BOXES.—Chas. Collby, South Pass, III. Antedated Aug. 18,185. Ist, I claim the cutting of strips for berry boxes by means of reciprocating frame, B, provided with the knife, C, the sligting or growing cutters, c, bed, D, and the spur or trimming cutter, d, with the stop or transverse bar, E, or the frame, A, in which the frame, B, works all combined and arranged to op-erate substantially as and for the purpose set for in. 2d, I claim the bars, G G, fitting loosely on the shaft, F, and spiral springs, e, when constructed and arranged in such a manner that the said bars, G G, shall press the strips being cut against the under side of the knife as herein set tortb.

^{rth.} 2.—Снеск Rein Holder.—McDowell Darrow, (assign or to himself and O. W. Hart,) Gates, N. Y. I claim in connection with the ordinary check rein and hook of harness he rein holder, constructed and operating substantially in the manner and or the purpose herein shown and described.

the rein noider, constructed and operating substantiation in the memory of the purpose here is shown and described. (68,173.—EED DRILL.—H. V. Davis, (assignor to Chas. Richardton, Amherst, N.H. I claim the several parts marked, a b c f g n k, when the several parts are connected, arranged and operated as specified. (68,174.—WASH BOARD.—L. De Golia, Batchellerville, N. Y. I claim a wash board provided with a wooden and a metallic corrugated surface, substantially as and for the purpose herein shown and described. (68,175.—AMALGAMATOR.—Go. B. Field, New York City. Ist, I claim the arangement and combination of the rollers, H, 4 ith the segment amagean chambers, A.A, so that the former shall work back and forth in the latter to produce at the same time a crushing and grinding of the orgs in the manner and for the purpose substantially as above set for the

forth in the latter to produce at the same time a crushing and grinding of the ores in the manner and for the purpose substantially as above set forth. 2d, The combination and arrangement of the vertical shaft, D, arms, G G, and hoppers, K K, and rollers, H H, working in chambers, A A, substantial-ly as and for the purposes described. 33, The arrangement of the amaigam chambers, AA, and setting chambers, B is, connected by the conduits, C C, substantially as described. 4th, The arrangement of the chambers, A A, with the chambers, B B, shaft, D, arms, G G, agitators, F F, hoppers, K K, and rollers, H H, substan-tially as specified. B B 4t

tially as specified. 68,176.—WASHING MACHINE.—T. G. U. Fisk, Macon City, Mc 68.176.—WASHING MACHINE.—T. G. U. Fisk, Macon City, Mq Iclaim the piston, C', lever, D, and spring, E, in combination with the ves-sels A B, the whole being arranged and operated as described and set forth, 68,177.—FENCE.—Benj. Force, Mount Pleasant, Iowa.
i claim the diagonal braces, F, in combination with the stakes, A, riders, C, parallel bars, E and B, all arranged substantially as set forth.
2d. I further claim the battens, H, in cambination with the stakes riders and bars, all arranged as shown and described.
68,178.—SMOOTHING IRON.—John Frasr, Dowagiac, Mich. I claim the copper plate, B, in combination with a smoothing non in man-ner and for the purposes substantially as described.

68.179.—RIDING ATTACHMENT FOR HARROWS.—Jas. M. Free

68,1/19.—KIDING ATTACHMENT FOR HARROWS.—Jas. M. Free-man, Bellville, N.Y. I claim the connecting of a riding attachment to a harrow through the me-dum of the elastic bar, B, bolt, b, chain, d, and draft hook, c, all arranged substantially as and for the purpose specified. 68,180.—WINDOW SHADE.—F. Gesswein, Fond du Lac, Wis. I claim, a blind or shade composed of slats with beveled edges arranged substantially as above described with notches in the edges of each slat where crossed by threads thereby weaving the slats closely together and narrowing the opening between them, and allowing the bevels of the edges to connect closely.

68,181.—DRYING BARRELS—Samuel Gibbons (assignor to

68,181.—DRYING BARRELS —Samuel Gibbons (assignor to himself and G. E. Palmer), Binzhamton, N. Y.
1st, Iclaim the within-described method of drying barrels by the heat radiating from pipes or equivalent means introduced into the barrels, substantially in the manner set for h.
2d, An apparatus for drying barrels composed of a series of pipes, A, with branch pipes, C, substantially as and for the purpose described.
68,182.—BALING PRESS.—J. H. Godwin, Scotland Neck, N. C. 1st, I claim the levers, E G, connected with the shoulders, f, and platen, H, in combination with the drop doors, I springs, J, and buttons, k, substantially as described for the purpose specified.
2d, 'The sides, h h'h', hung to one post and door, m, in combination with the bars, c, c, substantially as described for the purpose specified.
3d, 'The screw nutin combination with the upper hinge to prevent the dragging of the doors as normal near the bars.

bars, ii, and head block, c, substantially as described for the purpose speci-fied. 3d, The screw nutin combination with the upper hinge to prevent the dragging of the doors, as nere in set forth. 4th, The combination of the head block, C, supplemental door, s, and but-ton, t, substantially as described for the purpose Specified. 5th, The combination and arrangement of the frame, A, having stour, plates, b, levers, E G, connected by shoulders, f, doors, h h' h'' and m, and supplemental door, s, catches, h, cross bars, O O, hars, n nc, button, t, head block, C, drop doors, I, springs, J, and buttons, K, bar, g, guide bars, r r, and hinged bars, ii, substantially as described for the purpose specified. 68,183.—SADIRON.—James Gray, Newark, N. J. 1st, I claim the solid iron, A, when provided with a lug or lngs, a, in com-bination with the shield. B, having a bolt or bolts, C, and fitted to the handle supports, D, as described. 2d. The fanges. b and c, or either form de respectively on the surface of the solid iron, A, and on the underside of the shield, B, form an air chamber, <u>as set forth.</u>

-VEGETABLE CUTTER.-Victor Hagmann, Washing 68,184.-

ton, D. C.
1st., 1 claim a device for cutting vegetables, etc., having one or more knives attached to a screw adapted to receive a rotary and progressive motion, substantially as described.
2d. The combination with a screw, A, bearing one or more knives of the spring jaw, D, for holding saidscrew to its threaded bearing and permitting its ready retraction, substantially as described.
68,185.—RING FOR SPINNING.—H. G. Hall, Fayetteville, N. C. I claim the rings, B C, constructed as described, the former provided with the eccentric flange, a, fitting into the rail and the latter with a similar eccentric flange, a, fitting into the rail and the latter with a similar eccentric flange, a, fitting into the rail and the latter with a similar eccentric flange. A, fitting the the propose specified.
68,185.—ROTARY SYEAM ENGINE.—S. G. Hall, Norwich, Ct. I claim the L-shaped pieces of the piston, B, provided with grooves, d, and

I claim the L-shaped pieces of the piston, B, provided with grooves, d, and tongues, c, operating in combination with the piston, B, provided with recesses, b, when applied to the piston wheel, C, and irregular cylinder, A, all constructed as and for the purpose described. 68,187.—Dire FOR FORMING THE EYES OF PICKS.—Henry M.

I claim the pulley, D, substantially as described in combination with the chain, E, and shop, G for the uses and purposes mentioned. 68,194.— HUCK-SAW FRAMEL.— if. M. Hawyard, Boston, Mass. I claim the improved saw straining mechanism as described or in other words the combination and arrangement of the teeth, a D, with the end of the combined with the lever, F, and I is connecting rods, or the equivalent thereof, the whole to be suplied together and to a 69 106. 68,195.—Horse HAY Fork.—J. S. Henry and A. H. Rust,

1st, I claim the combination of the needle arm, E, constructed as described with the sliding pin, d', and cam, k, substantially as and for the purpose specified. 24, The needle rod, E, and its grooved cam plate, J, for operating the looper, substantially as described. 68,197.—DEVICE FOR CATCHING ANIMALS.—W. L. Hopper,

Monmouth, III. I claim the skiling bar, C, in combination with the parts, A B, and spiral spring, s, substantially as described for the purpose specified. 68,198.—APPARATUS FOR AGITATION OF MILK IN CHEESE

VATS.-J. Carroll House, Lowville. N. Y. I claim the use of the compound vibrating rotary dasher, D b F C E, with the pulley, G, crank, e, together with the crank pulley, H, and their coa-nections, as and for the object herein specified. 68.199.CARRIAGE CURTAIN FIXTURE.-Edward Howell,

Ashtabula, Ohio. Saliam the cam, c, and thumb piece, E, pivoted to the cam and arranged elation to the rib, d, and curtain, substantially as and for the purpose Ashtabula.

68,200.—PLOW CLEVIS.—Hanford Ingraham, Naples, N. Y I claim the clevis as constructed substantially in the manner and for the purpose as berein set forth. 68,201.—COMBINED CORN PLANTER AND CULTIVATOR.—D.

(05,201.—COMBINED CORN FLANTER AND CULTIVATOR.—D. W. Jacoby, Shelbyville.III. 1st. I claim the stationary plate, P. substantiality as described. 2d. The combination of the stationary plate, P. having a mortise or groove in which a slide plate, O, is made to operate by means of a spring, h, rods, m, and crooked lever, n. in combination with pipe, R, substantially as set forth. 3d, The combination of the shovels, F F, pipe, R, plates, O P, spring, h, lever, n, rods, m v, arranged to operate substantially as and for the purpose set forth. 68,202.—GRIDDLE.—Edwin A. Jeffery (assignor to himself

and George M.Clark), Trappe, Md. and George M.Clark), Trappe, Md. I claim the combination of the rim, C, fixed plate, B, hinged plate, A, hav-ing recesses, D, constructed substantially as described for the purpose speci-red.

68,203.-VENEER CUTTER.-Edward Jewett, Rindge, N. H.

I claim the face beveled knife, C, when combined with the head block, B, and arranged with relation to the friction plate, D, as and for the purposes set forth.

68,204.—BUCKLE.—W. B. Johnson, Bowling Green, Ky. I claim an improved buckle having its tongue held by means of a spring, su bstantially as and for the purpose described. 68,205.—MAGNETIC MACHINE FOR SEPARATING IRON FROM

(8):205.—MAGNETIC MACHINE FOR SEPARATING IRON FROM HRASS TURNINGS AND FILINGS.—Julius Jonson (assignor to Gustavus Jonson and H. L. Frank). Kaltimore .Md.
1st, I claim the arrangement of the hickes, G G, magnets, H H, wires g g, and rods, i k, in connection with the plate, O, and the plate, P, substantially as and for the purpose described.
2d, I claim the arrangement of the magnets, H H, with their faces in a po-sition inclined obliquely across their direction of revolution, substantially as and for the purpose specified. ACM STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD State of the purpose specified. ACM STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD Calam forming BeLLS.—Andrew Jusberg, Galva, Ill. 1 claim forming Bells of copper, tin and silver, in the proportion substan-tially as described.
ACM STANDARD STANDARD

tially as described. 68,207.—HARVESTER PITMAN.—W. J. Keeney, Florence, Ind. Iclaim the dotted adjustable box, C, constructed as described, its outer concave end fitting and working against the outer convex side of the hook, b, of the slickle bar its inner end secured to the pitman, A, as herein set forth for the purpose specified. 68,208.—WATCH KEY.—O. P. Kingman, Bridgeport, Conn. 1st Iclaim a watch key notating available in a collision on true.

00,200.— WATCH REY.—0.1. Ringman, Drugoport, Com. 1st, I claim a watch key rotating axially in a collar oscillating on trun-nions, substantially in the manner described for the purposes set for h. 2d, The combination of the axially rotating key, the swinging collar, the haif link or loop, and the swivel, C, for the purpose of winding up the watch with a key attached to the watch itself by a short link and of protect-ing the key when not in use. 3d, The notch, i, in the barrelfor the removal of obstructions, as set for th.

68,209.—BROOM HEAD.—Isaac Kohn, Edgerton, Ohio. Iclaim the leaf, A, fange, C, and loop, c, arranged in relation to the hooks, D, teeth, E, and case, as and for the purpose substantially as specified.

NOVAS, D. JEELIN, D., and Case, as and for the purpose substantially as specified. (68,210. — STEAM HEATING APPARATUS FOR BREWERS AND OTHERS, — A. KOMP, New York City. I claim the arrangement of a series of small nozzles, a, in combination with the steam heating drum or pipe, A, substantially as and for the purpose documents.

68,211.—Washing Machine.—A. F. Kuhlman, Dubuque,

68,211.—WASHING MACHINE.—A. F. Kuhiman, Dubuque, 10wa.
1 claim, 1st, The combination of the smooth rubbers, D, and inclined rubbing and feed boards, E, with the vibrating arms or plates, C, and shaft, B substantially as herein shown and described and for the purpose set forth.
24, The plyoted staffers, F, in combination with the inclined feed boards E, vibrating arms or plates, C, and tub, A, substantially as herein shown and described and for the purpose set forth.
34, The combination of the purpose set forth.
34, The combination of the purpose set forth.
36, The purpose and other purpose set forth.
36, The purpose and for the purpose set forth.
36, 212.—MODE OF DRIVING PRINTING PRESSES.—Clark M. Largley, Lowell. Mass.
1 claim the spring, B, which retains the shipper bar and driving belt in any required position in combination with the cond, it, the shipper box, OF, and the double cones, substantially as herein described.
38,212.—COAL HOD.—JAIMES A. Lawson, Troy, N. Y.
1 claim a coal hod or scuttle having its body in the general form of a furstrum of a cone and provided with a hopper, all substantially as and for the purpose specified.
37,201 and also claim the bale when combined with the body of the scuttle by means of hinged joints and stops, substantially as and for the purpose speci-

e purpose specimes. And I also claim the bale when combined with the body of the scuttle by cans of hinged joints and stops, substantially as and for the purpose speci-

68,214.—CENTRIFUGAL PUMP.—N. H. Libby, Charleston,

S. C. I claim the head plate, B, provided with lugs, D, in combination with the atches, E, shaft, C, drum, F, and clutches, H I, substantially as described

68,215.—Vise.—John Lee (assignor to Isaac C. Tate), New

00,210.— VISE.—JOIN LICE (assigned to load of land, 1.1.1. London, Conn. I claim, 1st, The stationary jaw, A, when provided with a flange, a, as and for the purpose specified. 2d, In combination with the above a sliding jaw when the same has a tongned shank fitting in grooves arranged on the arms of the stationary jaw, said arms being fitted to the under slde of the bench, substantially as scribed for the purpose specified.

said arms being nited to the under side of the bench, substantially as de-scribed for the purpose specified. 68,216.—PORTABLE CRANE FOR LOADING WAGONS.—Amos Letiner, Hopewell Township, Ohio. I claim, 1st, the combination of the lever, R, connecting bars, O and N, and sliding bar, P, with each other and with the hinged bearing; M, of the pinlon shaft or arle, G, substantially as herein shown and described and for the purpose set forth. 2d, The combination of the lever, S, connecting bars, T, and cross bar, U, with each other, with the sliding bar, P, and with the slotted end of the arm or beam, a2, substantially as herein shown and described. 3d, Attaching the tines v1, to the cross bar, v2, of the fork head, substan-tially in the manner herein shown and described. 4th, The combination of the scoop, W, with the lines, v1, and cross bar, v2, of the fork, V, substanially in the manner herein shown and described and for the purpose set forth. 68,217.—ELLIPTIC SPRING.-E. C. Lewis, Auburn, N. Y. I claim the nish formed upon the inner sides of the leaf, B,

made as set forth. 68,243.—STRAW CUTTER.—W. Schreck, Des Moines, Iowa. Antedated Aug. 23, 1867. 1st, f claim the sliking frame, F, working In the vertical standards, C C, in combination with the pitman, f, the reciprocating feed box, H, the spring rod, p, and the feeder, s, arranged and operating as and for the purposes herein described. 2d, The flap, m, in the bottom of the feed box, H, in combination with the spring, n, arranged and operating as and for the purposes pecified. 68,244.—PRESSING ISRICK.—Oran W. Seely, Buffalo, N. Y. I claim the pressing of bricks, by means of two perforated pistons, acting simultaneously on both sides, substantially as described. 68,245.—INSTRUMENT FOR MEASIBILING DEV GOODS.—Thorn-

08.217.—ELLIPTIC SPRING.—E. C. LEWIS, AUDURI, N. 1. I claim the nibs formed upon the inner sides of the ends of the leaf, B, fitting into the grooves upon the upper side of the leaf, A, in such a manner as tokeep the leaves in line with each other and preventing their lateral liencement said his and groups formed without baying any correspond.

buckle tongue. D, in combination with the loop, B, thereby forming a snap hook and buckle substantially as described. 2d, Hinging the tongue of a snap hook to the shank thereof by means of the pin c1, and the brace or bearing as both constructed and combined sub-stantially as herein set forth.

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stantially as herein set forth. 68,224.—MACHINE FOR FILLING RUTS AND LEVELING ROADS. –J. W. Minor, and D. P. Ward, New Bedford, Mass. Ist, We claim the combination and arrangement substantially as described of the guide wheel, B, the counters or shares, a a, the scrapers, b b, the lever, i and the roller, F, substantially as and for the purpose herein shown and de-scribed.

We claim the scrapers, b b, in combination with the roller, F, arranged santially as described with or without the gnide wheel, B, and the coulsubstantially as

ters, or shares, a a. 68,225.—COTTON BALE THE.—S. J. Mitchell, St. Louis, Mo. I claim a cotton bale the formed of a metal plate, A, having a slot, a, near-y across it and the plas, c c', on the wings, d d', constructed and operating s herein specified.

-SLEIGH BRAKES.—H. F. Morton, West Sumner, Me. 68 226

I claim the guides, D, mounted upon a suring on either side of the slee baying both ends free, the lower arm being sufficiently long to reach the ground and kept off it by the elasticity of a spring, C, substantiall yasshown and described.

and described. 68,327.—GRAIN RAKE.—Earl Palmer, Solon, N. Y. I chim the axle, B, constructed as described in combination with the clasp, H, and spring, K, substantially as and for the purpose set for th. 2d, The clasp or binder; H, with the spring, K, and hasp, L, attached to the axle and working in conjunction therewith and the ingers, f f, as de-scribed.

Scribed. 3d, The axle, B, bent at its center as described in combination with the rake sections, D pindependent of each other and arranged to operate sub-stantially as and for the purpose set forth. 68,228.—STUMP EXTRACTOR.—Isaac H. Palmer, Lodi, Wis. 1st, I claim the combination of the pivoted standards, A C, wheels, B, E, ar-ranged and operating substantially as herein described. 2d, The pivoted standards, A C, wheels, B, E, ar-ranged and operating substantially as herein described. 2d, The pivoted standards, A C, wheels, B, E, ar-ranged and operating substantially as herein described. 68,229.—PLATE W ARMER.—J. C. Palmer, New York City. I claim a plate warmer so constructed and operating as to present the plate edgewise to the heater register substantially as and for the purposes described.

described. I also claim so constructing a plate warmer that it can be applied either to a register in the floor or one in the wall by merely shifting its position, sub. stantially as described. 68,230.—LIFTING JACKS.—J. N. Parker, Darlington, Wis.

50,350.—LIFTING JACKS.—O. N. FARKE, Darlington, Wis, I claim the standard, A, to which the lever, B, provided with the head, B', covered with a roughened iron band, d.ls plvotcd by a knuckle joint, a, all constructed and arranged as described and adapted to be supported upon the graduated block, C, as herein shown and represented. 68,231.—CARBURETINGAPPARATUS.—G. H. Peacock, Fair-neet, N.Y.

OG. 201.—OARDORETINGATIATUS.—O. II. Feacock, Fairport, N.Y. Ist, I claim a reservoir or tank for liquid hydro carbons in combination with a vessel through which air or gas etc. is forced or passed in any suita-ble manner when the two are so connected as to enable a uniform or even high tor nearly so of liquid to be maintained in the latter or air or gas ves-sels and stantially as described for the purpose specified. 2d. In combination with the above, so arranging the supply tank orre-servoir that it can be adjusted for maintaining a greater or less hight, or nearly so, of liquid, within the generator vessel, substantially as and for the purpose described.

nearly so, of liquid, within the generator vessel, substantially as and for the purpose described. 3d, So arranging a pipe or tube, or tubes, within the supply tank, which pipe or pipes connect with the tube or other combination between the said tank and the generator vessel, as to take the liquid in the tank, both from a point at or near its surface, and ator near its bottom, substantially as and for the purpose specified. 4th, The combination of the tank, A, vessel, H, and coil of pipe, G, con-necting the two, substantially as and for the purpose described. 5th, The arrangement of the air pipe within the generator, H, in combina-tion with the chamber communicating with such generator, substantially as and for the purpose specified. (22,232, —FLOATING FENCE.—J. Pitcher, Mount Vernon, Ind. I claim, jat, The combination of the panels. A, hoops, B, and stakes, C, or their cq uivalents with each other, substantially as herein shown and de-scribed; and for the purpose specified. (31, 1a) combination with the above I claim the cables, E, posts, D, substan-tially as described, for the purpose specified. (68,233,—Rolls FOR ROLLING RAILROAD RAILS.—Samuel L.

tially as described, for the purpose specified. 68,233.—Rolls For Rolling Railroad Rails.—Samuel L.

Potter, Wyandotte, Mich. I claim the filets, or sboulders, b h, formed in one or more of the rolls, and in any desired number of grooves therein, so as by pressure upon the rail to cause the steel to become prominent, substantially as and for the purpose described 68.234 — BARREL OR CASK.—C. T. Provost, N. Y. City. 68,234.—BARREL OR CASK.—C. T. Provost, N. Y. City.
I claim dividing the interior of a barrel, keg, or cask, into two or more compartments, by means of partitions arranged within the barrel, substantially as and for the purpose herein shown and described.
68,235.—WATER GAGE FOR STEAM GENERATORS.—Emmett Culan, Washington, D. C. Antedated July 1, 1867.
I chaim, as a new article of manufacture, a water gage, consisting of the metal frame, with the glass plates, B, secured thereto on opposite sides, as herein shown and described.
68,236.—PAPER BINDING.—W. P. Read, Longmeadow, Mass ~ 1 claim a paper-fastener, composed of the strip, A, arranged and con structed substantially as and for the purpose described.
68,237.—SwiNGLE-TFEE.—Martin Ryerson, Huntsville, Ala. I claim a swingle, tree, constructed of iron rods, a a, in a barrel form, boand together and supported by disks, b, and bi, bi, and arranged and appled substantially as herein described.
68,238.—HOOP SKIRT.—WM. S. Ryerson, Philadelphia, Pa. Leisim a hoop or skeleton skirt, having ite tapes secured to the waist band

I claim a hoop orskeleton skirt, having its tapes secure dto the waist band or belt, in combination with buckles at such point of attachment through which the said tapes pass, substantially as and for the purpose described. 68,239.—STEAM DRYING APPARATUS.—William Ryner, Phil-

OC/203.—STEAM DRY(NG APPARATUS.— WIIIIall Ry(HC), F III-adelphia, Pa., assign or to himself and J. C. Hopewell, Flemington, N. J. I claim, ist, The center pipe, CP, steam cocks, S C, and openings, H, the whole constructed and operating in the manner and for the purpose above set forth and described. 2d, The sets of steam pipes, US, and U'S', with escape steam pipe, T T, and discharge boles, H H H H, connected with fire honse, A, by pipe, P M, the whole constructed and operating in the manner and for the purpose above set forth and described. 69 240. Wear Due reprod. Absolow Sacar Mondrillo Do.

50,240.— WOOL FACKERS.—A DSalom Sacger, Meadville, Pa. I claim the construction of the rack cylinder, fig. 5, in combination with the hoop, W, constructed with its outer end leveled, and larger than its inner end, in combination with the packing cylinder, A, the follower, K, the pin, S, the racks, B, and the gear wheels, D and E, the rollers, 6 7 8 9, when the same are nonstructed as described in the aforesaid combination, and for the purposes set forth.

purposes set forth. 68,341.—JACK SCREW.—Charles H. Sawyer, Saco, Me. I claim the jack screw, combining the different parts herein described, ar-ranged and to operate as set forth. 68,242.—MASH AND BEER COOLER.—C. Schenck, Manheim, Grand Dupphy of Reden

Grand Duchy of Baden. Ist, i claim a liquid cooler, so constructed that, by centrifugal power, the liquid is thrown from a revolving disk against the inside of a revolving cyl-inder, where it is cooled by a current of air created by a fan on the inside of the cylinder, substantilly as herein shown and described. 2d, The cylinder, F, in combination with the disk, L, on the shaft, J, and with the fan, M, all made and operating substantially as herein shown and described.

3d, The above, in combination with the annular vessel, P, the same being made as set forth.

68,245.—Instrument for Measuring Dry Goods.—Thorn-

-WOOL PACKERS.-Absalom Saeger, Meadville, Pa.

68.240.

recesses, b, when applied to the piston wheel, C, and irregular cylinder, A,	fitting into the grooves upon the upper side of the leaf, A, in such a manner	ton, A. Shrim, Baden, Pa.
all constructed as and for the purpose described.	as tokeep the leaves in line with each other and preventing their lateral	I claim the large wheel, with the fractions of the yard or foot marked
68,187.—DIE FOR FORMING THE EYES OF PICKS.—Henry M.	displacement, said nibs and grooves formed without having any correspond-	thereon, in combination with the ratchet wheel, L, carrying the hand, N.
Hamilton, New York City.	ing depression or projection upon their opposite sides of the leaves, as herein	which registers the number of yards or feet on the dial, M, together with the
I claim the combination of the improved jaws, A A', a divided cutter ring.	described for the purpose specified.	spring and slide, carrying the small friction wheel, F, constructed substan-
G (either at the upper or lower side), and shouldered punch, E, operating		tially as and for the purpose set forth.
substantially as described.		
	town, N.Y.	68,246.—CIDER MILL.—Thornton A. Shrim, Baden, Pa.
68,188.—FUMIGATOR FOR DESTROYING VERMIN.—Jonathan	I claim, 1st, The curved platform, E, applied to the screw elevator, sub-	I claim the disk. E, constructed and arranged substantially as described,
R. Hamilton, M. D., Portland, Oregon	stantially as and for the purpose set forth.	in combination with the rollers, JK L and M, when arranged and operating
1st, I claim the cup or bowl, A, with its insulated chamber, H, and pipe,	2d. The movable bar, G, applied to the frame of the device when used in	as described, and for the purpose set forth.
D, as constructed with stopper, E, in combination with the apparatus E, or	connection with the screw elevator, substantially as and for the purpose	68,247.—Double Shovel Plow.—L. L. Sloss, near South
its and for the purposes herein		Thion Ky
specified.	68,219.—PERMUTATION LOCKS.—Calvin L. Lucas, Plymouth,	I claim connecting the plow frames to each other, by the three adjustable
2d, 1 claim the pipe, D, as constructed with the end closed and side open-	Mass.	bars, DEF, not in the same horizontal plane, and pivoted or connected at
ings, e e, for the escape of the fumes when said pipe is constructed with a	I claim in combination with the tumbler and the superposed bolt plate,	end to the plow frames, by double jointed, hinged or equivalent connections,
Chamber having an inside coating of calcined plaster or other suitable ma- terial as a non-conductor of heat as described and for the purposes herein	when guided by the arbors of the permutation gear as described of the	so as to have both a lateral and vertical movement, substantially as herein
set forth.	orank or locking pin, k, under the arrangement and for operation as herein	
	shown and specified.	
68,189.—CURTAIN FIXTURE.—Oscar Hanks, Cincinnati, Ohio.	CO 990 Des Ges D. Marshham Dismouth Mish	68,248.—CRUSHING AND WASHING SAND.—John R. Smith,
I claim the elastic adjustable grooved pulley, E, in combination with	68,220.—BED SPRING.—Geo. B. Markham, Plymouth, Mich.	Connellsville, Pa., assignor to himself and W. H. Denniston, Pittsburg, Pa.
elastic collar, F, as applied to certain rollers, C, substantially as described.	I claim the spring composed of two wires, A A. having springs, B, coiled	1st, I claim the introduction of a stream or flow of water, into the crush-
68,190.—GRAPE PLOW.—Richard Hardenbrook, Bath, N. Y.	upon their length each passing through an eye, a, in the other and fimshed off	ing pan of a revolving sand, rock, or sand stone crusher, to aid the crusher
I claim the clevis, H, provided with the elongated slot, h, perforated arms	by the loop or eye C, in manner and for the purpose substantially as above set	or crushers in disintegrating the rock, and to cleanse and discharge the nul-
or fork, h' h', and hp, e, when connected to the notched beam, A, by means	forth and described.	verized sand, substantially in the manner and for the purposes hereinbefore
of the single pivotal hold, substantially as and for the purpose described.	68,221.—Compound to be used in Beehives.—T. F. McCaf-	set forth.
I also claim the curved form of the slot, h, or the equivalent thereof.	ferty, Forest, Ohio.	40, the rotating and revolving crushing wheels, b, in a sand rock crusher,
whereby a forward inclination is given to the draft bearing surface of the	I claim the compound made of the ingredients substantially as and for the	in combination with a crushing pan, a, provided with a discharge gate, s, and
clevis from the center to the ends thereof, substantially as described.	purpose specified.	a water supply pipe, h, or its equivalent, all constructed and operated sub-
I also claim the flanged extension or tail piece, A', formed on the beam, A,	68,222, -MACHINE FOR MAKING SPIKESR. G. McKay.Cleve-	stantially as and for the purposes above set forth.
as a means of attachment of the handles, B B, as described.	land. Ohio.	68,249.—VALVE FOR WATER CLOSET.—W. Smith, San Fran-
68,191.—Sheep Rack and Mow Combined.—John Harman,	1st, I claim the cutting pointing and griping die. D, bed die, D', header, K,	cieco. Cal.
McConnellsville. Ohio.	and spring, P, all constructed and arranged as and for the purpose set forth.	I claim the vale, H, working through the annular elastic washer, i, whereby
I cisim the construction and combination of the rack, A, and mow, B, and	2d, The sliding cam, H, header, J, and springs, P e, in combination with the	in opening the valve the water in the chamber is allowed to pass freely, said
opening, C, as herein described and forthe purposes set forth.	dies as and for the purpose described.	washer preventing the return of the water, excepting through the channel,
68,192SASH WEIGHTSandy Harris (assignor to himself	3d, The described arrangement of the rollers, R, lever, W, cam, V, spring,	h, as here in set forth, for the purpose specified.
	a, pawl and raicnet for the purpose specified.	68,250CARTRIDGE RETRACTOR FOR BREECH-LOADING FIRE-
and David Bevan), Philadelphia, Pa. ⁴		ARMS - William S. Smoot, Washington, D. C., assignor to Windsor Manu-
I claim the mode or modes, substantially as herein described, of attaching the sash cord to the weight.	68,223.—SNAP HOOK.—C. H. Miller (assignor to himself and	facturing Company, Windsor, Vt.
	T. W. Toye, and E. L. Cook,) Buffalo, N. Y.	I claim a cartridge extrac or swinging loosely on a common center, with
68,193ELEVATING BLOCKWm. H. Hawley, Utica, N. Y.	I claim the tongue C, extended below its fulcrum bearing to form the	that of the carrier or breech block, when said extractor, after being gradu

ally operated by swinging the said block, is made to take on, by any means, a suddenly accelerated movement to extract the shell, without accelerating

a suddenly accelerated movement to extract the shell, without accelerating the movement of the block itself, by which the extractor is operated. 68,251.—SwiveL SHIP FENDER.—W. Sniffin, Sing Sing, N. Y. Iclaim the combination of the swivel, a, with the fenders, A. substantially as and for the purpose herein shown and described. 68,252.—WAGON JACK.—J. M. Spiller, Clinton, Kansas. Iclaim the lifting bar, B, provide: with ratchet teeth, a, a he combination with the forked handle, C, and catch loops, c c the springs, d d, and the slide, D, arranged and operating as and for the purpose described. 163,253.—PLOW.—Win. T. Sprouse, Chandlerville, III. Iclaim the landskie, b, when constructed in the manner herein shown and described.

78,254.—PROCESS TO BE USED IN THE MANUFACTURE OF

78,254.—PROCESS TO BE USED IN THE MANUFACTURE OF GLASS, SOLULE SLIGATES, HYDROCHORIO ACO, AND ELERCHING POW-DEES.—WIN R. Stace and H. M. Baker. Rochester, N. Y. assignors to themselves. John A. Morrison, Seward F. Gonld, and Joseph Eastwood. What we claim is the application to the manufacture of glass, soluble slil-cate of soda, Jieaching powders, and hydroch bric acid, of the processes berein described, for the decomposition of chiorde of sodium with silicic acid and oxygen gas, at elevated temperatures, whether said oxygen gas be furnished in the manufacture described (from steam or air), or from chlo-rate of potash, peroxyde of manganese, caustic baryta, or any other of the usual modes. 68,255.—BEDSTEAD.—W. B. Stewart, Brooklyn, N. Y. What I claim is the bars, f and g, fitted as specified, in combination with

What I claim is the bars, f and g, fitted as specified, in combination with the rollers, d d i and k, carrying the racking or webbing, e and m', as and for the purposes set forth.

What I claim is the bars, I and g, ntted as specified, in combinator was the rollers, d d i and k, carrying the racking or webbing, e and m', as and for the purposes set forth. 68,256. — GRATER.—Henry Stone, Williamsburgh, N. Y. Iclaim a grater consisting of box, A, grating cylinder and drawer, all constructed and combined together substantially as described. 68,257.—APPARATUS FOR DISTILLING AND RECTIFYING PE-TROLETM.—Cbarles Stoll, San Francisco, Cal. Antelated Aug.19, 1867. 18, Iclaim an apparatus for discling and rectifying petroleum, in which steam is need in the still or retort and i rectifier, substantially as and for the phrpose described. 68,257.—APPARATUS FOR DISTILLING AND RECTIFYING PE-TROLETM.—Cbarles Stoll, San Francisco, Cal. Antelated Aug.19, 1867. 18, Iclaim an apparatus for discling and rectifying petroleum, in which steam is need in the still or retort and i rectifier, substantially as and for the phrpose described. 68,258.—REFFRIGERATOR.—Anthony B. Sweetland (assignor to himself and J. Daley), Fitchburg, Mass. 18, I claim the ise bottom, D, when provided with legs, d', projecting through the inclined lining, C, and resting upon the bottom of the Case. A, as herein set forth for the purpose specified. 3d, The construction and arrangement of the perforations, d, to the revolving shelves, g, as herein show n and described. 3d, The construction and arrangement of the perforations, d, to the revolving shelves, by the wooden casing, A, as herein set forth for the purpose specified. Bay TB CASE BRUSH.—Ellis Thayer (assignor to himself and bay the performance of the performation and arrangement of the performations and removable performations.

bottom, b, an inclusion by the works catting, i.e. in the purpose specified. 68,259.—DUST BRUSH.—Ellis Thayer (assignor to himself and

b) the loss specified.
b) the loss specified.
c) the limit of limit the limit of limit of limit the limit of limit the limit of li

665,262.—COTTON SEED PLANTER.—J. U. TODIAS, Helena, AIK. Ist, I claim the revolving toothed wheel, D, and revolving toothed shaft, F', placed within the hopper, A, in combination with the adjustable elastic plate, F, underneath the base plate of the hopper, substantially as and for the purpose set forth. 2d, I further claim the beam, G, in combination with the hopper, A, mounted on wheels, B B, and connected together substantially as and for the purpose specified. 3d, I also claim the pressure or covering bar, I, in combination with the harrow, G, and the hopper, A, provided with the seed distributing device, all constructed and arranged to operate in the manner substantially as and for the purpose setforth. 618 963 - Gravnuka, MILL.—Chas, T. Umfried, Stuttgart.

68,263.—GRINDING MILL.—Chas. T. Umfried, Stuttgart

US.203.—(JRINDING MILL.—Chas. T. Umiried, Stuttgart, Wirtemburg. 1st, I claim the solution of the solution

68.264.—Roofing Composition.—Wm. Van Dyke and W

W. Eastwick, Keokuk, Iowa. I claim a fire and water proof paint which is composed of the several sub-stancesmixed together in about the proportions described. 68,265.—SHIP VIAMETER.—Jas. C. Walker, Waco Village

I claim the combination in a viameter of the pipes, A and C, wheel, B, cir-cular box or sheath, D, and indicating apparatus, substantially as and for the

curar dox or sheath, D, and indicating apparatus, substantially as and for the purpose described. (88,286.—PILE FOR WROUGHT IRON BEAMS OR GIRDERS.— George Walters and ThomasShaffer, Phoenixville, Pa. We claim a pile or fagot for wrought iron beams or girders, composed of one or more bars for the nib, and any appropriate number of bars for the fange or flanges, when the said bars are arranged and permanently secured together by bolts or rivets, as and for the purpose herein set forth. (88,267.—PILE FOR WROUGHT IRON BEAMS OR GIRDERS.— G. Walters and T. Shaffer, Phœnixville, Pa. Iclaim a pile or fagot for wrought iron beams or girders, etc., composed of one or more bars for the web, and three or more bars for each flange, when the said bars are arranged and permanently secured together by bolts or rivets, as and for the purpose described. (82,268.—SprRING BED BOTTOM.—Otis H. Weed, Charles-

68,268.—Spring BED BOTTOM.—Otis H. Weed, Charles

68,268.—SPRING BED BOTTOM.—OUIS II. WOUL, Charles town, Mass.
1 claim the slats, C, so lengthened as to rest upon the springs, b or c, and extending the whole length of the bedetead, in combination with the springs, b or c, passing over the rail and supported by the same, to which they are attached by means of the removable and detached plates, a, all substantially as described and for the purpose set forth.
Talso claim attaching the springs of the bed bottoms to the rails by means of the removable and detached plates, a, substantially as described.
68,269.—REFRIGERATOR.—John De W. Wemple, Albany, N.Y.
1 claim the combination and arrangement of reservoir, W, filter, H, ice chest, I, trough, O, and faucet, F, as and for the purpose specified.
68,270.—WASHING AND WRINGING MACHINE.—James Whitney, Bristol, Vt.

ney, Bristol, Vt. I claim the combination of the tub, A, sliding frame, E, rubber springs, F, Inted cylinders, BC, wringer, G, constructed as described, and the table eaf, N K O and P, as here: set forth for the purpose specified.

68,271.-STRAWBERRY TRELLIS.-Wm. W. Wilcox, Middle

Town, Conn. Iclaim the strawberry trellis, a, made substantially as above described, with an apright post or posts, e, and branching arms, c. 68,272.—CORN HUSKER.—Daniel Williams, Saginaw City,

08,272.—CORN ITUSEER.—Dattor "Initiation, Segment of the construction and arrangement of the conting plate, G, upon the pivotec bar, C, noteched and fianged plate, H, upon the interior stationary frame, D E A, constructed and operating as herein shown and described. 68,273.—CHURN.—Samuel C. Wilson, Olney, III.

the straight-edged double or slotted blade, B, substantially as and for the purpose described. 68,281.—PERMUTATION LOCK.—Ed. W. Bretell, Newark, N.J.

68,281.—PERMUTATION LOCK.—Ed. W. Bretell, Newark, N.J. 1st. I claim the wheel, w. the stumps, 4s and 55, the recess, R1 and cap, K, with its stumps, s1 and s2, as shown in fig. 1, pl. 2, and fig. 3, pl. 1, when ar-ranged in the map ner and for the purpose berein set forth. 2, pl. 2, substantially in the manner and for the purpose herein set forth. 3, I claim the roots bar, I, with its stump, s3 also the tumbler, T, as shown in fig. 1 and the roots bar, I, with its stump, s3 also the tumbler, T, as shown in figs. 1 and 2, pl. 1, in the manner and for the purpose herein set forth. 4, the reliam the evolution of the stump, s4 also the tumbler, T, as shown in figs. 1 and 2, pl. 1, in the manner and for the purpose herein set forth. 4, the reliam the evolution of 0, d, and the claw socket, L, as shown in figs. 1 and 2, pl. 1, and figs. 5 and 5, pl. 2, when arranged in the manner and for the purpose herein set forth. 68,282.—BALING SHORT CUT HAY, ETC.—Charles Brown, Butfalo, N. Y.

purpose herein set forth. 68,282.—BALING SHORT CUT HAY, ETC.—Charles Brown, 1st, i chim preseng and binding shortcut hay and straw into compact bales as a new urblich of manufacture, trade, acd commerce, substantially as de-scribed. 2d, The application and use of straw or hay as a binder on the top and bot-tom of the bale, substantially as set forth. 68,283.—HORSE RAKE.—E. W. Bullard (assignor to himself and J. W. Jenkins, Jr...) Barre, Mass. 1st, I claim the combination with the arms, I and p, of the guide piece, J, hook, K, and holding and revolving piece, 9, substantially as and for the pur-pose set forth. 3d, The combination with the arm, J, and flanged hub, M, of one or more forks, 10, substantially as ast for the pipces set forth. 3d, The combination with the arms, I and p, of the spring, L, ar-forks, 10, substantially as and for the pipces set forth. 3d, The combination with the arms of and the folding piece, 9, mounted upon the axle or rake head, substantially as set forth. 3d, The combination with the arms of and the folding piece, 1, with one or two forks, m, and one or two arms, 5, under the arrangement and for operation substantially as and for the purposes set forth. 3d, The combination with the axle or rake head or one or more rake teeth, do at operating substantially as and for the purposes set forth. 3d, The combination with the axle or rake head or one or more rake teeth, do, attached to the rake head, as described, and provided each with a rear curve from c to d, a front curve from e to c. and a shank, f substantially as and for the purposes herein show man as set forth. 68,284.—CONCRETE AND TILE PAVING.—Cornelius Burlew, Lockhaven, Pa, assignor to himself and Thornton Smith, Washington, D,C. 1st. I claim the mode, substantially as set forth, of compounding and pre-pairing concrete blocks of paving.

D.C. t, I claim the mode, substantially as set forth, of compounding and pre-ring concrete blocks for paving. The mode of laying pavements by the use of concrete blocks imbedded united substantially as set forth. pairing c 2d, The

and innited substantially as set forth. 68.285.—NURSING BOTTLE.—Milo S. Burr, Boston, Mass. I claim the month guard, the tube and nipple connection combined or made of one piece of wood or other material, as set forth. I also claim the tube and nipple, connection, E, provided with the auxiliary shoulder, d₄ as and for the purrose set forth. 68,286.—WASHING MACHINE.—C. M. Carleton, Forester, Mich. 1 of Leium the combination of the rubbar F and rollers C C and da and be fully in the solution to the purchase of the rubbar F. and rollers C C and da and and the solution of the rubbar F and rollers C C and da and and the solution of the rubbar F and rollers C C and da and and the solution of the rubbar F and rollers C C and da and and the solution of the rubbar F and rollers C C and da and and the solution of the rubbar F and rollers C C and da and and the solution of the rubbar F and rollers C C and da and and the solution of the rubbar F and rollers C C and da and and the solution of the rubbar F and rollers C C and da and and the solution of the rubbar F and rollers C C and da and and the solution of the rubbar F and rollers C C and da and and the solution of the rubbar F and rollers C C and da and and the solution of the rubbar F and rollers C C and da and and the solution of the rubbar F and rollers C C and da and and the solution of the rubbar F and rubbar F and F

1st, I claim the combination of the rubber, F, and rollers, C C and d d, and belt, E, with the bars, G I and y, with their set screws and springs, as and for the purpose set forth. urpose set forth. Arrangement of clutch pulley, R, band F, and shaft, W, with its pulley, the endless belt, E, or its equivalent, and rubber, F, as and for the pur-

88,287.—MUSICAL SCALE.—William E. Catlin, Wayne Town-ship, Pa. I claim the construction and use of my transposition teacher, as and for the purposes et forth.

68,388.—HORSE RAKE.—A. W. Coates, Alharice, Ohio. I Iclaim the toggle, H, constructed as described, whereby the rake teeth are held down, when the arms, d d, are in line, or nearly so, with each other, and lifted by drawing np the handle, e, which raises the inner end of the arms, d d, the weight of the driver assisting, substantially as herein shown and de-scribed.

68,289.—Sheep-shearing Table.—Charles, J. Corlett, War-

05,259.—DHEEF-SHEAKING TABLE.—OHATICS, J. COTTCH, Wat-ren D. Sherman, Nicholas A. Wolfe, and Chas. Huston, Clarkston, Mich, We claim the combination and arrangement of the revolving wheel, A, the cords, B & the snap, C, the cord, D, the eye bolts, E, F, the hook, E, the book-ed lever, H, with the adjustable table, K, all arranged substantially as de-scribed and for the purpose desized. 68,290.—CULTIVATOR.—Charles C. Creek, Liberty, Ind.

68,290.—CULTIVATOR.—Charles C. Creek, Liberty, Ind.
1st, Iclaim the provision, in a corn plow or cultivator, of a sifter wheel, D, constructed and attached substantially as shown and described.
2d, I claim the plow irons, B B', having the element, b b' b'', arranged as shown and described.
3d, I claim the arrangement in a corn plow or cultivator of the adjustable bar, G. with its bolt and nnts, F f, substantially as set forth and for the parameters. The combination with the adjusting bar, G. F, I claim the adjusting arrangement, W Y, of the tongne on the beam.
5th, I claim the trane, R, consisting of the elements, S s t, in combination with the racks, U U, and chains, V v, admitting of a slight forward or retrograde movement in the plows, B B', in respect to each other and the beam,

68,291.—Curing and Preserving Grain.—Folsom Dorselt,

Chicago, III. Chicago, III. 1st, I claim a system of ventilating frames, A A, used in stacks of hay, grain, etc., said frames being adjustably closed by doors, B, and arranged to oper-ate substantially as set forth. 2d, The combination of such a system of adjustable ventilating frames and an adjustable sectional roof in stacks, etc., of hay, grain, etc., substantially asset forth.

68.292. -HAMMER FOR BREECH-LOADING FIRE-ARMS.-Wm

H. Eliot, New York city. 1st, I claim, in those arms in which the hammer receives the force of the charge as a breech-plate, and is pivoted to the arm in a rearward direction from the chamber, projecting the lower portion of the face forward, substan-tially as and for the purpose herein described. 2d, So arranging and constructing the face of such hammer and the fring point and hammer-pivot in relation to each other that the cartridge will be adjusted to its place in the chamber, as herein set forth. 68,293.—CORN ELEVATOR.—Andrew Erkenbrecher, Cincin-nettion bio

as describ 68,312.-

nati, Ohio. I claim the arrangement of adjustable carrier, C, having an endless apron, I, and having its driving shart, D, inclosed within the bollow trunnion, B, which upholds the said carrier, and about which it oscillates, substantial y as set forth. 68.294.—Apparatus for Drying Starch.—Andrew Erken-

50,294.—APPARATUS FOR DRYING STARCH.—AII0Few DrReft-brecher, Cincinnati, Ohio. 1st, I claim the provision, in a starch drying apparatus, of a series of racks, K, formed to run on tracks, F and J, within and without the drying room, and which communicate, by a similar track, upon a track, H, which occupies a depressed track or railway, J, substantially as set forth. 2d, The arrangement of drying room or rooms, A B, ventilators, CD, steam heating pipes, E, elevated tracks, F and J, depressed track, I, truck, H, and racks, K, for the the purpose set forth.

races, K, for the the purpose set forth. 68,295.—TRIP HAMMER.—Jos. Tandler, Grand Rapids, Mich. 1st, I claim the combination of the hammer, C, with its several parts, with the adjustable spreader, F, substantially as described for the purpose speci-fed 68 295

fied. 2d, The adjustable spreader, f, arranged and connected as described. 3d, The griping arrangement, substantially as shown in fig. 3, combined with the bammer, as and for the purposer set forth. 4th, The upsetting wheel, J, and the pulley, e, connected to the frame, A, and operate: in the manner described. 68,296.—COTTON SCRAPER.—T. T. Fleming, Memphis, Tenn. 1st, Iclaim the combination of the blade or share, a, standard, B, bar, D, and plate or shoulder, C, all arranged substantially as and for the purpose set forth.

forth. 2d, I further claim the knife, E, applied to the rear of the blade or share, substantially as and for the purpose specified. 08,297.—CORN MARKER FOR PLANTING.—David A. Freeman,

 "3d, "The expansion keys, 62, constructed substantially as and for the purpose described.
 "4th, The anti-friction roller, f', applied to the key, 62, substantially as and for the purpose described.
 5th, The combination of segment levers, H, the switch levers, D, D, and the connection of such segment levers, with locking devices, so that the switch rails shall be antomatically locked and unlocked, as well as changed from right to left, by means of chains and rods with devices applied to the switch rail levers, such as the secribed.
 6th, The locking levers, N, applied to a rock shaft, K', and connected by means of chains and rods with devices applied to the switch rail levers, substantially as described.
 6th, 316. — APPARATUS FOR COOLING MILK. --C. L. Sheldon, Lowville, N. Y.
 Tolaim the use of a water receiver, a d, so constructed that it shall receive the water at low opposite extremity, and when wholly or party filled, employ, when the same is an attachment for scitual purposite in purper, Mass.
 6th, 318. — CLOTHES DRYER. -G. P. Sisson, Hore, Mass.
 1 claim a clothee' drying reel, in which the arms are operated by means of a screw arranged in the center.
 6th, 318. — Gas HEATING APPARATUS FOR SAD IRONS. --Jacob Bellylle, Mich. I claim the combination and arrangement of the axle, A, provided with joints, B b, the frame, C, the seat, D, the wheek, E E E, collars, a a a, and the set screws, g g and c, and the beveled ings, H H, etc., all arranged sub-stantially as described for the purpose designed.

68,298.-MORTISING MACHINE.--D. L. Gibbs (assignor to R.

50,290.—MORTISING MACHINE.—D. L. GIDDS (assignor to r. Ball & Co.,) Worcester, Mass. 1st, I claim the combination with the sliding frame, 18, and rod, L. oflevers, K'L', and weight.L'', said parts being arranged to operate in relation to each other, substantially as and for the purp oses set forth. 2d, The combination with the sliding irame, 18, of the adjustable pieces, M M, slotted cross pieces, N N, adjusting bolts, 29, as and for the purposes set 2d, The screen, D, having clusters of apertures, d d d, as and for the purpose described.

the upper chamber into the boiler below the cover, the other, D, opening in-to the upper chamber and with the induction pipes, E, substantially as and for the piproses et forth. 68,301.—POWER HAMMER.—Martin Munkley, Rochester, N. Y., assignor to himself and M. R. Ballintine. 1st, i claim the set screw, s, adjustable hammer by, B, in combination with the straight indented hammer shaft, S, all constructed and arranged as and for the purposes set forth.

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the straight indented hammer shaft, S, all constructed and arranged as and for the purposes set forth. 24, In connection with the hammer shaft, S, the arrangement herein de-seribed of the convolute spring, C, screw coupling, c, connecting rod, f, and lever, b, as and for the purposes specified. 3d, The arrangement of the adjust able stop, r, and guide plate, n, in connec-tion with the coupling plate, w, as and for the purposes specified. 68,302.—PLAVING CARD BOARD.—Ralph S. Jennings, (assign-or to himself and Chas. D. Macqueer, Philadelphia.Pa. I claim a playing card board constructed in sections as described and hav-ing compartments, E, with finger holes therein for taking up the cards and disks and pointers, G d and H, all arranged and combined substantially as and for the purposes set forth. 68,303.—HARNESS MOTION FOR LOOMS.—L. J. Knowles, War-ren, Mass.

ren, Mass. In Statistical Product For Looman. In Statistics, while arrangement I chaim the combination with the heddle levers of a loom, the arrangement of disk or plate came in pairs with respect to each heddle lever and the pins thereof so that both disks may act continuously upon the pins substantially as described.

as described. 68,304.—LINE HOLDER.—William Morse, Boston, Mass. 1st, I claim in combination with the piece, a, serpentine or corrugated hold-ing pieces, bd, substantially as and for the purpose set forth. 2d, Also in combination with sach holding pieces and with the piece a, a movable device arranged to operate substantially as described. 68,305.—BILL HOLDER.—Gilman Moulton, Cambridge, Mass. Lokim the binged and spring compartion of the two parts of while hold.

I cluim the hinged and spring connection of the two parts of a bill holder over, substantially as de cribed. Also in combination with the two covers, a and b, of a bill holder of pockets and a flap, K, substantially as described.

and a fla 68,306.

and a flap, K. substantially as described. 68,306.--GATE FOR RAILROAD CROSSINGS.--J. Mason and F. M. Wilson, Boston, Mass. We claim the combination of the rotary gates supporting shafts or sleeves and their pulleys and connecting band or chain with treference to the stantion-ary posts and relatively to each other the pulleys and their operating me-chanism being arranged below the track or road bed and operating together to simultaneously open or close the gates, substantially as set forth. 68,307.-TABLE KNIFE.-Peter Neff, Cincinnati, Ohio. I claim the combination of the blade, a. and take, B. out out of a single piece

ary posts and relatively to each other the pulleys and their operating mechanism being arranged below the track or road bed and operating together to simultaneously open or close the gates, substantially as set forth.
68,307.— TABLE KNIFE.— Peter Neff, Cincinnati, Ohio.
Telaim the combination of the blade, a. and ta.g. B. cutout of a single piece of steel and having shoulders, a a', the handle, C. having a slot or recess, e. and the slotted bolster, E. e. secured upon the tang. B. between the shoulders, a a', and the slotted bolster, E. e. secured upon the tang. B. between the shoulders, a a', and the slotted bolster, E. e. secured upon the tang. B. between the shoulders, a a', and the end or the handle, all as herein described.
68,308.—HITCHING POST FOR ANIMALS.—Daniel Newton, Southington, Ct.
Telaim the several parts shown at, A B C D and E, when constructed and arranged as set forth.
68,309.—POTATO DIGGER.—N. S. Noyes, Plymouth, Mich.
1st, 1 claim the perpendicular motive given to the grating, C, for the purpose described.
"9d, The combination and arrangement of the frame, a seat, B. grating, C, endless belt. D. connecting rold. E. pulley, F, eccentic wheel, H. plow, K. collar, I, shatt, L. «trving wheel, M. drum N. soring, O, wheels, P. P. wheel, R. lever, S. bail, J. rame, U, belts, V w, arranged substantially as described for the purpose designed.
68,310.—STEAM PLOW.—H. E. Paine, Milwaukie, Wis.
1st, I claim the device for operating a gang plow spader or digger, with or without an accompanying harrow or seeder by means of two stationary engines, located on opposite sides of the section to be plowed and connected by by ropespassing around drums and wound upon and from them in the manner and to the effect set forth.
"2d, The construction and combination of the drums, L M L M, actnated by Senate engines but connected and operating as set forth and described.
"3d. The derrick, with its fall rope, Q, con

-STEAM ENGINE SLIDE VALVE.-E. J. Piper, and J.

C. Marshall, Springfield, Mass. 1 claim, in combination with the valve, B, the gib, a, arranged substantially as described, and adjustable from the outside of the valve, as herein set

1 claim, in combination with the vary, b, the single value, as therein set forth.
68,313.—PLOW.—Burdet C. Rouse, Morris, Ill.
1 claim the rotary landside cutter, in combination with the shear bar at its point, and arranged in the manner and for the purpose above set forth.
68,313.—MECHANICAL POWER APPLIED TO SEWING MA-crunxs.—L.W. Sapp. M.D., Cleveland, Ohio.
1 claim the driving mechanism provided with controlling and regulating devices, constructed, arranged and combined with a sewing machine, sub-stantially as and for the purpose storth.
63,315.—RAILWAY SWITCH.—W. F. Serjeant, St. Louis, Mo.
1st, I claim a double locking automatic railroad switch, which is con-structed in the manner and upon the principles substantially as herein set forth.
2d, The longitudinal levers, D D, arranged on both sides of the track, and extended alongside of the siding or turn out, said levers being provided with segmentievers, H, and constructed so as to be accet upon by keys, 62, upon a moving train, and caused to change the switch at the pleasure of the engineer, substantially as described.
3d, The axpanishic keys, 62, constructed substantially as and for the purpose scientificd.
3d, The axpanishic keys, 62, constructed substantially as and for the purpose scientificd.

68,318.—GAS HEATING APPARATUS FOR SAD IRONS.--Jacob

D. Spang, Dayton, Obio. B. Spang, Dayton, Obio. 1st, I claim the burners, C, having theslits, c c, and the central button, x, combined and arranged together, substantially as and for the purpose described.

wheels, H H, connecting rods, I I, pulleys, L M, and band, K, substantially as	forth.	3d, The arrangement and combination of the burner, C, screen, D, and
and for the purpose explained.	3d. The combination with the weighted sliding frame and levers and con-	chamber, E, having the beating compartments, e e e, substantially as and
2d, The dasher consisting of the annulus, N', and convex-concave deflector,	necting rod for actuating the same, of a spring attached to said connecting	for the purpose specified.
N, substantially as described.	rod, under the arrangement and for operation as herein described.	68,319.—FRUIT JAR.—C. F. Spencer, Rochester, N. Y.
	4th, The combination of stand, d, stationary screw, e, gears, a b, shaft, D,	l claim a ready formed cover or stopper for fruit, jelly and other jars or
68,274.—SHAFT COUPLING.—Thos. H. Wood, Monroeville, O.	with the sliding piece. B. substantially as and for the purpose set forth	cans made of paper, cloth or other easy penetrable material prepared so as
I claim the spring, D1, section of the reach, D, and pivots, C, pivoted with	5th, The combination with the sliding plate, B, of the bed, E, carrying the	to be air-tight and having its surface provided with gum or other adhesive
ibs, E, as arranged in combination with the lugs, B, and clip, A, for the pur-	bearing, C, and stay brace, 7, in the manner and for the purpose herein de-	substance so as to be self-attaching, self-sealing, and self-retaining, substan-
pose and in the manner set forth.	scribed.	tially as and for the purpose herein specified.
68,275.—Washing Machine.—John Worden, Normal, Ill.	6th, The combination with the table of a mortising machine of the vertical	68,320.—SHEEP RACK.—David Stapleton, Iowa City, Iowa.
l claim the combination of the beater, G, having the bars, g1 g2, lever, F,	sliding pieces, j, and lever, G, substantially as and for the purposes set forth.	1st, I claim the loose rack, G H I, and its bearings, b and c, in a sheep rack,
tub. A, with vertical ends, al, inclined sides, a2, curved bottom, a3, and dis-	7th, The combination with the table, F, of the vertically sliding pieces, j,	substantially as and for the purpose described.
charge orifice, I, sliding, wedge-shaped gate, D, having rubber or equivalent	provided with projections, k, and screws, m', and the lever, G, or its equiva-	2d, The sheep rack, constructed with the loose rack, the vertical pieces, I,
place attached to its inner side, all constructed and operating substantially as	ient and perforated plate or stand, s, under the arrangement and for opera-	of which fit between its vertical pieces or boards, D, substantially in the
herein set forth for the purpose specified.	tion as hereinshown and described.	manner and for the purposes described.
68,276.—MILK HOUSE.—Henry Yerty, Covington, O.	8th, The combination in a machine as described, with the sliding pieces, j,	
I claim the within described milk house, constructed substantially as and	and lever, G, of the stationary screw, m, and adjusting or stop nuts, e e', the	68,321.—Production and Manufacture of Carbonic Acid
for the purpose specified.	whole being arranged and operated asherein specified so that mortises may be cut either in or out of line as desired.	AND IN THE APPLICATION OF THE SAME FOR VARIOUS USEFUL PURPOSES.
	9th. The combination with the catch wheel. H", provided with beveled re-	-Simon Stevens, New York City,
68,277.—GANG PLOW.—G. C. Avery, Conn's Creek, Ind.	cesses of the spring lever. A, and beveled pin, o, arranged for operation in a	1st, I claim the process of preparing carbonic acid herein described.
I claim the hinged levers, D D, vertical bars, G G, loops a a, cords g g,		2d. The use of carbonic acid prepared in the manner herein described for
and lever, H, the whole combined and operated substantially as and for the	10th. The combination with the sliding piece, B, and bed, E, of the lever, I',	the improvement of theseveral processes and manufactures herein specified.
purpose herein set forth and described.	in the manner herein described, so that the lever will be raised and lowered	3d, The compound formed by mixing hydro carbon spray with air or air
68,278.—LAMP SHADE.—D. W. Bashore, Palmyra, Pa.	with the hed, substantially as and for the purpose set forth.	and steam for producing motive power in gas and other engines, substan-
I claim the narrow shace, B, with reflecting inner surface so constructed as	11th. The combination with the bed. E. and the lever. I. of the flat half	tially as herein set forth.
to restupon and closely surround the bulb of a lamp chimney with its upper	twisted spring, I''', substantially as and for the purposes set forth.	68,322.—CONSTRUCTION OF BARRELS.—George St. George,
opening large enough to not materially obstruct the ascending rays of	12th, The combination of slotted stop pieces, Q Q, or their equivalent with	New York City.
light.	slotted piece, K, substantially as and for the purposes set forth.	I claim constructing a barrel with raised surfaces made on the head or
68,279.—CHEESE-CURD CUTTER.—William A. Bemis, Spen-	13th, The combination of the slotted piece, K, and adjustable catch pieces,	heads or other suitable part thereof, substantially as and for the purpose
cer. Mass.	22, with frame, A, and lever, I', for the purposes set forth.	herein set forth.
1st. I claim the employment of the double edged knife. G. in combination	68,299.—HEATING STOVE.—John Grossius, Cincinnati, Ohio.	68,323TRACE ATTACHMENTAndrew Thompson, Ottum-
with the sliding frame. A, as and for the purpose set forth.	I claim the arrangement in a heating stove of the plates. C D E F, aper-	wa. Wis.
2d, The employment of the boards, E E, in combination with frame, D, and	tures, e g, and exit pipe, J, as and for the purpose herein described and illus-	I claim a metal harness trace point, B, having ratchet teeth, b b, or their
knife, G, all arranged to operate in connection with box, A, as and for the	trated.	equivalents, in combination with a spring clamp, d, for fastening the trace.
purpose specified.	68,300COVER FOR COOKING STOVE BOILERT. F. Hall	constructed, arranged, and operating substantially as and for the purpose
68,280.—Hedge TRIMMER.—Friederich Binder (assignor to	and George Fakel Richmond Ind	herein described.
bimself and William Richardson), Baltimore, Md.	In combination with the cover, A A', we claim the water chamber formed	68,324.—WATCH REGULATOR.—W. B. Tucker, Hillsboro, O.
I claim the straight-edged single blace. A operating in combination with	over the plate, A', and constructed with two funnels one, C, opening through	I claim operating the regulator of a watch or other time keeper by means
	, contraction of the second and the stands of the second	a contraction of a watch of other time receipt by means

of an attachment thereto composed of the scale base plate, a, supporting knobs, b b', borizontal screw shaft, b, toothed wheels, d and e, winding arbor, f, and the attaching and indicating nut, g, all arranged and operating substantially in the manner herein set forth. 68,325.-WATER WHEEL.-Thomas Welham, Philadelphia,

Pa. Fa. Ist, I claim the friction water wheel, constructed as shown and inclosed in a case, as here in described. 2d, I also claim the flanges, A, of the water-tight casing, B, said flanges forming a passage entirely around the circumference of the wheel, C, as herein shown and described.

68,326.-MUSKETO BAR AND WINDOW SCREEN.-Alcibiades

J. Whittler, Rox bury, Mass. I claim the book. a, and the bolts. a, or their equivalent, when applied and arranged for operation substantially as and for the purpose set forth,

68,327.—CAR PLATFORM.—H. S. Wilcox, West Meriden, Ct. I claim the car platform constructed with plates, as' railinc, f?, sup-ported by the posts, e e, and secured to the care by bolts or screws, all con-structed and arranged substantially as described and for the purpose set forth.

68,328.—REFINING SUGAR AND SIRUPS.—Henry A. Williams (assignor to himself and Benj. H. Chadbourne), St. Louis, Mo. I claim a combination of the ingredients used in preparing said compound, in about the proportions herein named and for the purposes set forth.

68,329.—CORN COVERER.—A. J. Combs, Olney, Ill. I claim the combination of the frames, A and E, handles, C, roller, F, and shovels, B, all arranged and operating in the manner and for the purposes set

Shovels, D, all all sugges and operating in the model of the forth. 68,330.—MANUFACTURE OF BOOTS AND SHOES.—Wm. Du-chemin and Albert Jeffers, Lynn, Mass. We claim the peculiar construction of the tool for forming the above men-tioned channel and turning its edges, consisting of the bar, A, formed at its lower and into the cutter, A, the beak or plowshare, b, and the mold board or boards, c, substantially in manner and to operate as specified.

68,331.—Sheet Copper Plates for Culinary Vessels.

68,331.—SHEET COPPER PLATES FOR UULINARY VESSELS.— Andrew O'Neill, Portsmouth, O. I claim as a new article of manufacture a sheet of copper tinned, varni hed, and cold rolled, in the manner set forth. 68,332.—ILLUMINATING ROOFS AND ROOF PAVEMENTS.— Thaddeus Hyatt (assignor to Elizabeth Adelaide Lake), New York city. I claim, 1st, Forming the approaches over an areaway to the doorways of a building from the side walk by means of a solid transfurent bridging of iron and glass, which serves the double purpose of stoop and roof, substantially as herein described. '24. Unling the 'areaway 'to the basement of a building by a water-tight roof of iron and glass so combined as to form a gouterally flush surface fit for walking nos and laid in the plane of the glowal's, substantially as described.

Walking noon and rate in the plane of the showned in the stretching acceleration of the stretching the basement of a building to the space nuder the stretching means of a translucent water tight roofed airy way when the glass and iron which compose the roofare so combined as to form a generally flush surface fiftor walking upon and are taile in or nearly in the plane of the sidewalk, substantially as herein set forth. Ath, Combining an area light with the sidewalk and a building by means of a double cement substantially as herein set forth.

a double cemented joint made with putty, or its equivalent, and failed cement, substantially as herein set forth. 5th, Combining the glass of a roof light with the iron framing of the same by means of a double cemented joint, substantially as herein described. 6th, I claim broadly as my invention an illuminating roor of iron and glass where the iron which supports the glasses in position forms the general strength of the root, the combination being such as to secure the two-fold object of equalizing the light of the glasses. 7th, I also claim broadly as my invention an illuminating, step roof, com-posed of glass and iron that is to say where the iron and glass are composed into illuminating solid sing such as a secure the two-pose scherein set forth. 69 992. Voort Servers A WW-blass

68,333.-VAGINAL SYRINGE - A.W.Washburn, Yazoo City, Miss. I claim the enlargement of the immediate entering head of a synthese to such an extent as to produce an anular flange radiating the desired distance beyond the barrel or conducting tube of the same and thereby producing the improved vagina syringe herein represented and described or any other which shall be substantially the same.

REISSUES.

2,753.—GOVERNOR FOR STEAM ENGINES.—Augustus Brown, N.Y. City. Patented Nov. 7th. 1865. I claim.the swivei arm. C. subjected to the action of a spring or weight in combination with the throttle or governor valve of a steam engine and with the belt which serves to impart motion to the governor, substantially as and for the purpose desorbed.

2754.—VALVE GEAR FOR STEAM ENGINE.—Putnam Machine Company, Fitchburgh, N. Y. Assignces of Charles H. Brown and Charles Burleigh. Patched January 15, 1856. lst., We claim the cam shaft, S, when so arranged with reference to the main shaft, K, of the engine, substantially as, and for the purpose de-scribed.

the said main shaft of the engine, substantiany asymptotic the spin of the seried. 24. We claim the described arrangement of two or more cams, h, upon the shaft, S, and with reference to the induction valves substantially as and for the propose described. 34. The shoulder and levers, d, having adjustable fulcruns, e, in combination with a cam or cams, h, for operating the valves and varying the point of ut-off substantially as set forth. 40. An additional set of the induction walves and varying the point of the trangling the governor with reference to the shouldered levers, d, so that it will control the position of their fulcrun, e, and thereby regulate the velocity of the engine substantially as described. 5 th, The manner of arranging the steam and exhaust valves with relation to the cylinder, H, and shaft, S, as and for the purpose set forth.

2,755.-HARVESTER.-Robert Bryson, Schenectady, N. Y. Patented April 8, 1862. 1st, I claim a main frame of a harvester which i adapted for carrying the

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The value of the SCIENTIFIC AMERICAN as an advertising medium cannot be over-estimated. Its circulation is ten times greater than that of any similar journal now published. It goes into all the States and Territories, and is read in all the principal libraries and reading rooms of the world. We invite the attention of those who wish to make their business known to the annexed rates. A business man wants something more than to see his advertisement in a printed newspaper. He wants circulation. If it is worth 25 cents per line to advertise in a paper of three thousand circulation, it is worth \$2.50 per line to advertise in one of thirty thousand.

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Back Page, for engravings......\$1.00 a line. Inside Page.....40 cents a line. drivers seat and the gearing that operates the cutters and also for having the draft tongue attached to it said frame being carried by two driving and sup-porting wheels both of which are furnished with a ratchet and pawl having afinger bar, carrying a platform, hinged to it, at one side thereof, in combi-nation with a circularly moving sweep rake which issustaited by the hinged connection of the finger bar and platform and moves over the platform at intervals and discharges the cut crops to nesi de thereof. In rear of the driv-leg wheels, such rake being driven automatically from the draft frame. "Ad, A fulcrum or plvot for a circularly moving sweep rake, a rulke for such rake and a singer beam carrying a platform, all so connected to each other and hinged to the first frame at one side thereof that while the rake has no other supportupon the draft frame. "So, Arranzing the uplated will work in unison with the platform at finger beam through all the vibrations of the same without affecting the draft frame." "Ad, a fuller unor rule of the platform nearly in line with the joint of the finger beam through all the ubrations of the same without affecting the draft frame. "So, Arranzing the under the of this finger bar will not case the joint to in a nake which is on a hinged platform nearly in line with the joint of the fin-ger bar, so that the movements of this finger bar while works the rake. "Ath narvester with a two wheel draft frame, a finger bar carrying a platform and a rake, the finger bar platform and rake being connected to both driving wheels by pawls and rathets. "Sth. The combination of a finger bar when the latter is con-municating motion to s." a fake from the main axie when the latter is con-municating motion to s." a fake from the same axie when the latter is con-municating motion to s." a fake form the same axie when the latter is con-municating motion to s." a fake form the same axie when the latter is con-municating motion to s." a fake form the same axie when the latter is con-municat

¹ to the line of draft for the inger beam and platform, and a two wheel draft frame.
6th, A sweep rake mounted upon a platform connected to a finger beam which is hinged to the inner side of the draft frame in such manner that the inner edge of the platform does not extend beyond the said inner side of the draft frame.
7th, A sweep rake, a platform and a finger beam, connected together and hinged to the draft frame.
7th, A sweep rake, a platform and a finger beam, connected together and hinged to the draft frame.
7th, A sweep rake, a platform and a finger beam and platform to accommodate the metry and inner ends of the finger beam and platform to accommodate them selves to the undulations of the ground, so that the rake is allowed unchangingly to follow the motions of the platform and entring apparatus or finger beam.
8th, A sweep rake mounted on a hinged platform upon which the grain falls the mater frame, he pivot of said rake being between the center of the draft frame, and the outer divider of the platform, and the platform upon which the grain falls the rake is more than rake.
2.756.—SHADE FIXTILE —Stewart Hartshorn New York

terminating near the inner side of the draft frame.
2,756.—SHADE FIXTURE.—Stewart Hartshorn, New York City. Patented Oct. 11, 1864.
I claim the application to a shade roller provided with a spiral spring for automatically raising or rolling up the shade of a pavi and a ratchet, or notched hub, so arranged that the former will engage with the latter a. any point or height of the shade by simply checking the rotation of the roller and the upward movement of the shade under the influence of the spring, substan-tially as set forth.
2,757.—SOFA BEDSTEAD.—Charles F. Martine, Boston, Mass. Petonted June 6 1954 Peissned Dec 25 1855

2/157.—SOFA BEDSTEAD.—Charles F. Martine, Boston, Mass. Patented June 6, 1854. Reissned Doc. 25, 1855. Ist, I claim the single spring mattrees so constructed and arranged with a sofahaving a hinged back as to form, when the back is dropped from an up-right to a horizontal position for forming a bed, an even surface without joint or center depression substantially as and for the purpose specified. A so constructing and arranging the single spring mattrees with a sofa having a hinged back as is, as is mattrees shall be drawn in or depressed long tuainally at or near its center by means of cords or their equivalents and will have the appearance and effect of two separate cushions one for the seat and the other for the back of the sofa, substantially as specified. S4, The arms separated in the center when used in combination with the sofa and mattrees constructed in the manner and for the purpose described.

DESIGNS.

2,768.—Spoon.—Charles T. Marchand, Deleware City, Del., assignor to Higgins, Marchand & Co., Philadelphia, Pa.

2,769.—STATUETTE.—J. S. McKaye and H. G. McKay, New York City.

2,770.—CARPET OR OIL CLOTH PATTERN.—Charles T. Meyer, Bergen, N. J., assignor to Edward C. Sampson, New York City. 2,771.—TRADE MARK.—H. J. and J. T. Monsch, Louisville, Ky.

-FORK OR SPOON HANDLE.-John Polhamus, New 3,772.-York City.

2,773.-FENCE.-W. E. Smith, Hartleton, Pa.

2,774.-TRADE MARK.-William Ziock, St. Louis, Mo. ****

PENDING APPLICATIONS FOR REISSUES.

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

26,527.—WORKING BUTTER.—J. P. Corbin, Whitney's Point, assignce by mesne assignment of Josiah Seymour. Dated Dec. 20, 1859. Application for relessnereceived and filed Dec. 22, 1866. Ist, A vibrating rod, F, hanele, G, and butter worker, H, combined and ar-ranged to operate as shown, or in an equivalent manner, for the purpose set forth.

Tanged to operate as shown, or in an equivalent manner, for the purpose set forth. 2d, The combination of the tray, B, with the butter working apparatus, ar-ranged for joint operation, substantially as shown and described. 3d, The manner of tipping the tray or bowl to drain off the fluids, also of securing it to the table or frame, for the purpose set forth.

'L'O TIOUL MARLENS.— FOR SALE. The entire right for a Patent expanding Resmur, simple in its construction. easily adjusted, and admired by all who have used it. For particulars, ad dress BECHTEL, STRAHAN & HARDY, 11 1*] (care Merrick & Sons.) Philadelphia, Pa.

TO INVENTORS AND PATENTEES. Inventors and patenters of new and useful articles, or machines of light weight, are invited (if they desire to open the way for the sale of their patents) to send sam-ples, express paid, and entirely at liker own express to the "MANUTACTURES' AND MECHANICS' ASSOCI-ATION," New Haven, Conn. 114

WAIT'S IMPROVED JONVAL TUR-BINE WATER WHEEL is manufactured at the Baker's Fails iron Machine Works. It is warranted to give out full ten per cent.more power than any other kind of iron wheel, and twenty per cent. more than those piaced in scrolls. For circulars address 11 tf] P. H. WAIT, Sandy Hill, N. Y. placeu 11 tf]

S10 A DAY MADE BY ANY ONE bies free. Beware of infringers. My circulars will ex-plain. \$100 reward will be paid for information that will convict any person of using my Patent Stencil Tools not bought of myselt, or parties licensed by me. See patent No. 27,783. Address 11 1-P] A, J. FULLAM, Springfield, Vt.

65,003.—STEAM ENGINE.—Horatio C. Perry, and John L. Lay, Buffalo, N.Y. Dated May 21,1867. Application for reissue received and filed Aug. 19, 1867.
The combination and arrangement of the high and low pressure cylinders. A and B, of a vertical compound engine, having a continuous p.s'on rod, with a space or chamber intervening 'set ween their proximate heads, sub-stantially as and for the purpose set forth.
The combination and arrangement of the shell or frame constituting the intervening chamber, K, with the two cylinders, A and B, and continuous piston rod. F, its bottom plate forming the cover of the cylinder, B, con-structed substantially as and for the purposes herein set forth.
We also claim the [Stuffing box, consisting of the sleeve, h, and packing box L, in combination with the chamber, K, and histon, F, and cylinders, A B, arranged and operating substantially as and for the purposes set forth.
We further claim the combination and arrangement of the explinder, B, con-structed and operating substantially as and for the purposes set forth.
We further claim the combination with the chamber, K, forming the head of the cylinder, B, whereby the adjustable ring, M and sectional pack rings, r s, of the piston E, may be removed, substantially in the manner and for the purposes herein set forth.
47,647 — WALL BUILDER AND STUMP EXTRACTOR —George

b. may be removed, substantially in the mainter and for the purposes herein set torth.
47,647.—WALL BUILDER AND STUMP EXTRACTOR.—George W. Packer, Jr., Mystic River, Ct. Dated Aug. 29,1865. Application for reissue received and bled, Aug. 21,1867.
list, I claim the within-described mode of laying masses in a wall or equivalent work, that is to say, partially turning the vehicle so as to bring the massover the point desired, without moving the wheels across the same substantially as herein specified.
24, I claim the within-described mode of laying masses in a wall or equivalent work, that is to for acces, FI E2, with the four wheels as and the same substantially as herein specified.
24, I claim the within-described combination and arrangement of the pyramidal frame, M Mi, M2, and curved reaches, EI E2, with the four wheels and their accessories, substantially as and for the purposes set forth.
34, I claim the employment of braces, FI F2, or their equivalents, in combination with the struks, M, etc., and the curved reaches, P. etc., and arrangement do be supported on wheels, substantially in the manner describes condition of the reaches, by connecting each to the strute above, at one or more points, as and for the purpose herein setforth.
45, I claim the employment each set or the the struks above, at one or more points, as and for the purpose herein setforth.

TNOTE.--The above claims for Reissue are now pending before the Pat ent Office and will not be officially passed upon until the expiration of 30

days from the date of fling the application. All persons who desire to oppose the grant of any of these claims should make immediate appli. cation to MUNN & CO., Solicitors of Patents, 37 Park Row, N.Y.

Inventions Patented in England by Americans. [Condensed from the "Journal of the Commissioners of Patents."]

PROVISIONAL PROTECTION FOR SIX MONTHS,

924.-AIRENGINE.-Philander Shaw, Boston, Mass. March 29, 1867.

2,110.-HEATING AND COOKING APPARATUS.-Oscar F. Morrill, Chelsea, Mass. July 18, 1867.

2,137.—BREWING, AND APPARATUS EMPLOYED THEREIN.—Wm. S. Haight, Waterford, N. Y. July 22, 1867.

2,140.—NETS AND NETTING.—Benj. Arnold, East Greenwich, R. I., and Wm. J. Hooper, Baltimore, Md. July 23, 1867. 2.145.—SPRING BED BOTTOM.—Sterling Bonsall, Philadelphia, Pa. July 23, 1867.

2.146.—TANNING, AND APPARATUS EMPLOYED THEREIN.—Sterling Bonsall, Philadeiphia, Pa. July 23, 1867.

2,155.—RECIPROCATING MOTION.—John B.Page, New York city. July 24, 1867* 2,160.-MOLD BOARD FOR PLOWS.-Leman P. Rider. Munson, O. July 25, 1867 2,178.—Mode of Constructing and Propelling Steam Vessels.—Stephen J. Gold, Cornwall, Conn., and Henry J. Weston, Brooklyn, N. Y. July 27, 1867.

2,179.-WATER AND GAS METER.-Joshua Mason, Paterson, N. J. July 27, 1867.

2,191.-MACHINERY FOR HULLING RICE, ETC.-Simon G. Cheever, Beston, ass. July 29, 1867.

2,192.-INSULATORS FOR TELEGRAPHIC WIRES.-David Brooks, Philadel-phia, Pa. July 29, 1867.

2.214.—MACHINE FOR MANUFACTURING WEAVERS' HARNESS.—Joseph S. Winsor and Wm. W. Fletcher, Providence, R. I. July 31, 1867.

2,226.-POCKET KNIFE.-L. B. Morris, Hopkinsville, Ky. Aug. 1, 1867. 2,227.—BREECH-LOADING FIRE-ARM.—Theodore Yates, Milwaukee, Wis. Aug. 1, 1867.

EXTENSION NOTICES.

Joseph Goldmark, of Brooklyn, N. Y., having petitioned for the extension of a patent granted to him the 22d day of November, 1853, for an improve-entin facing ends of percussion caps, for seven years from the expiration of said patent, which takes place on the 22d day of November, 1867, it is ordered that the said petition be heard at the Patent Office on Monday, the 4th day of

November next. Charles J. Woolson, of Cleveland, Ohio, having petitioned for the extension of a patent granted to him on the 4th day of December, 1860, for an improvement in design for stove plate, for seven years from the expiration of said patent, which takes place on the 4th day of December, 1867, it is ordered that the said petition be heard at the Patent Office on Monday, the 18th day of

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