OFFICIAL REPORT OF PATENTS AND CLAIMS

Issued by the United States Patent Office,

FOR THE WEEK ENDING JANUARY 7, 1868.

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On filing each application for a Patent, except for a design
Un issuing each original Patent.
On appeal to Commissioner of Patents
On application for Reissue
Un application for Extension of Patent
On granting the Extension
O = 414

On filing application for Design (three and a halfye ars)
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In addition to which there are some small revenue-stamp taxes. Residents of Canada and Nova Scotia pay \$500 on application.

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

72,959.—CHURN.—Henry W. Adams, Milton, Pa

forth. 72,960.—Ice House Floor, —Joseph Barbian, Chicago, Ill. 72,960.—Ice House floor, composed of the grooved zinc plate, F, strips, C c and strips, E, connected by metallic bands, D, all constructed and arrange d substantially as described. 72,961.—FASTENING FOR SHOES.—John Barbier, Boston, Mass. I claim the bent arms or plates, C, when constructed and attached as set forth, in combination with the entire strips, B, as herein described, as and for the purpose set forth.

the purpose set forth. 962.—WELL.—Samuel W. Barr and Edwin McGuire, Be-72.962

72,962.—WELL.—Samuel W. Barr and Edwin McGuire, Beloit, Wis. We claim the combination and arrangement of the well tube, soldered fil-ter, and dril point, all substantially as and for the purpose set forth. 72,963.—BOOT AND SHOE HEEL.—George Beaty, Middlebury, Ohio, assignor to W. W. Kitchen, West Union, Iowa. I claim constructing a metal boot heel hollow, when its upper face is bev-eled, so as to form a broad bearing for the shoe to rest in, and also having a series of spikes arranged in the center thereof, as harein described, and for the purpose specified. 72,964.—Frue KUNDLING AND FUEL.—Ira Bicknell Cincin-

the purpose specified. 72,964.--FIRE KINDLING AND FUEL.-Ira Bicknell, Cincin-

nati, Ohio. I claim the fuel combination, using for that purpose the aforesaid com-pound of rosin or pitch, fine coal, sawdust, and coal oil, or any other substan-tially the same, and which will produce the same effect. 72,965. — BAGGAGE CHECK. — Virgil W. Blanchard, Brid-

72,965. — BAGGAGE CHECK. — Virgil W. Blanchard, Brid-port, Vt. I claim, ist, The circular plate, A, with the names of the stations of any particular rail road stamped upon its surface, near its periphery, with notches or recesses, out in the periphery of a circular opening in the central portion of said plate, said notches or recesses corresponding with the names, hrures, letters, or other symbols stamped upon the surface of the plate, near its pe-riphery, in combination with the bolt or dog. D, for the purpose of fixing the pointer, B, at any particular name, station, or symbol, on the outside of the plate.

riphery, in combination with the bot of one of the phapes of intrighted pointer, is, at any particular name, station, or symbol, on the outside of the plate. 2d, Also a plate, bearing the number of the check, attached to the plate bearing the pointer, the circular plate having the names of the stations of any particular name due that surface, near its periphery, revolving between them, when not locked by the bolt or dog, for the purpose specified. 3d, Also, a bolt or dog, pl.ying freely in a recess between the plate bearing the pointer and the one bearing the number of the check, in combination with the nothers or recesses cut in the periphery of the circular opening in the central part of the circular plate, for the purpose of fixing the pointer at any particular name, any mber, or symbol. 4th, Also, a bolt or dog in combination with a slit or opening cut in the plate bearing the check show of the check, so arranged, with a strap connecting the check so the baggage or freight, that when the strap is withdrawn from the said slit or opening, the weight of b, the through the openiner may be torned to any particular name, station, or symbol, when the pointer may be torned to any particular and strap connecting the check in a place of baggage or freight through the opening cut inclusion the station. and statistical of the state of

30. 5, the employment of steam as a joint agent in diff sing the vapor and ig the apartment to produce the result described. 5, the process of destroying burrs or other foreign vegetable substan-wool, substantially as set forth. To the variance of the province C. Brown, Longoll.

ces in wool, substantially as set form. 72,987.—HARNESS FOR LOOM.—Darius C. Brown, Lowell

Mass. I claim hanging the heddles in their frame at one end to a common bar, but t their opposite ends to two or more bars, substantially as and for the purat th pose described. 72.968.—Mode of Fastening Artificial Teeth.—T. Yard

ley Brown, Reading, Pa. I claim the attach , ent of artificial teeth to swaged plates by means of a fusible metal or alloy, as herein described. 72,969.—BILLIARD CUE RACK.—Emanue! Brunswick, Chica-

Tashoe metal of alloy, as herein described.
T2,969.—BILLIARD CUE RACK.—Emanuel Brunswick, Chicago, 11.
I claim the revolving billiard cue rack, constructed and operating substantially as and in the manner herein described and specified.
TABLE LEAF SUPPORT.—Daniel Bull, Amboy, Ill.
I claim, ist, The combination of a link, A, a recessed bar, D, provided with a spur, t, and a movable stop bar, E, arranged and operating substantially as and for the purposes berein set forth.
2d, Also, the combination of the bar, D, or its equivalent, provided with the spur, f, and the movable bar, E, provided with the prong or fork, g, arranged in the manner and for the purposes described.
3d, Also, the recess, l, in the bar, D, and the projection, m, on the bar, E, arranged substantially as specified, to prevent the longitudinal displacement of the bar, E, as child, the prong.
4th, Also, providing the bar, D, with slots, d d, to admit of the adjustment thereof, as and for the purposes specified.
72,971.— SEED-PLANTING MACHINE.—Henry Bundel and James Williams, Dayton, Ohio.
we claim, in combination with the lifting bar, D, for raising, supporting, or lowering the shoes, the arms or brackets, c b, for forming its hing of connection with the main frame, substantially as and for the purposes herein described and represented. scribed and represented. 72.972.— MECHANICAL MOVEMENT.— H. C. Burk, Mineral

Point, Ohio. Telaim the combination of the main wheel, A, spur wheel, B, with its pit-tan, E, and pluion-wheel, C, all arranged to operate substantially as and for he purpose setforth.

the purpose setforth. 72,973.—MATCH SAFE.—P. D. M. Carmichael, Le Roy, N. Y

I claim the properling arm, B, constructed substantially as described. In combination with the actuating lever, e, spring, f, and mouth, k, arranged and operating substantially as and for the purpose set forth. Also, in combination therewith, the dog, g, and spring, arranged and oper-ating substantially in the manner and for the purpose specified.

72,974.—SEWING MACHINE.—Wm. Chicken, Chelsea, Mass.

no s disposition of pulverized ores within the reducing chamber of a ur-race, for the purpose set forth. 72,981.—COMBINED SULKY PLOW AND CULTIVATOR.—Wil-liam G. Crossley, Shellsburg, Wis. I claim. 1st, The arrangement and combination of the beam, C. rod, i spring catch, y, and lever, h, for regulating the position of plow, E, substan tially as and for the purpose set forth. 2d, The combination of rod. S, having a lever, S', with arms, Q Q, elbows, T T, loops, P P, and hanks, M L, arranged to raise and lower shovels, ffff, and hold them in position as described, in conjunction with bars, O O, as set forth.

and tool alon a posterior and the purpose set forth. 72,982.— CARTRIDGES FOR SMALL-ARMS.— Thomas Cullen,

San Francisco, Cal. San Francisco, Cal. I claim t e method and arrangement of securing the metallie base or cap, a, to the paper tube, d, which holds the charge, by means of the nipple, c, screwing into the interior washer, b, as substantially herein set forth and described

72,983.—SAW.—James Davis, Buffalo, N. Y.

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I claim, 1st, Making the saw teethaboye and below the center line, [12, with their cut.ing edges toward said line, and the rake or set above the reverse of that below the centerline, in the manner and for the purpose described. 2d, The projection, D, at the point of the saw tooth, for the purpose set forth 72,984.—CAR BRAKE.—Fred. Dengler, North Vernon, Ind.

1070....
72,984.—CAR BRAKE.—Fred. Dengler, North Vernon, Ind.
1 claim, 1st, The lever, B, and roller, C, acting on the curved lever, A, all combined and operating substantia. Jy us described.
2d, Also, thew heel, H, Arculupou cheaxie, the wheel, u, and cogged wheel, v, and pawi, and the laterruchate roller, w, all constructed and operating in combination with each other. as described.
72,985.—CAR BRAKE.—David Dick, and O. W. Preston, Jr., Corning, N. Y.
We claim, 1st, The dog, D, as constructed, in combination with spring, i, operating conjointly substantially as set forth.
3d, In combination with dog. D, and spring, i, we claim kicker, b, and sprimeley, 's, substantially as described.
3d, The engineer's connecting rod, W, when in combination with the brake reparatus, substantially in the manner specified.
3d, The rocking shaft, b, worm wheel, d, slide, e, connecting rod, u, chain bar, B' E, and engineer's connecting rod, W, all combined substantially in the manner specified.
3th, The rocking shaft, b, worm wheel, d, slide, e, connecting rod, u, chain bar, B' E, and engineer's connecting rod, W, all combined substantially in the manner specified.
3th, The rocking shaft, b, worm wheel, d, slide, e, connecting rod, u, chain bars, B' E, and engineer's connecting rod, W, all combined substantially in the manner and for the purpose set forth.
72,986.—STOP COCK.—Justus Doering (assignor to himself, A. F. Shelly, and Charles Dixey), Pbiladelphia, Pa.
I claim the combination of the case and conical valve of a cock, and a conical stationary sleeve, fitting the case, and conical valve of a cock, and a conical stationary sleeve, fitting the case and conical valve of a cock, and a conical stationary sleeve, fitting the case into wheth is valve to thing and which is so constructed and connected to the valve tati timay be withdrawn with the latter from the case without the necessity of detaching any nuts or ot

which the factor in an and the stantially as described. 72,987.—LET-OFF MECHANISM FOR LOOM.—George Draper, MIGON.-LET-UFF MECHANISM FOR 1.00M.-George Draper, Milford, Mass. I claim the said combination of devices, substantially as above described, or operating the said rate et, the warp guide and beam, in manner as spe-ine.

cified. Also, their combination with the warp beam and its gearing, and ratchet and with the warpguide, and the lay, the whole being substantially as ex plained.

plained. 72,988.—TRUNK.—Jonathan Smith Eaton, Roxbury, Mass.

12,985. — IRUNK.—Johathan Smith Eaton, Koxoury, Mass. I claim the combination, with the frame of a trunk, of the strips or pieces a a, substantially as and for the purpose s t forth. 72,989.—BREWING.—William H. Elliot, New York city. I claim the process herein described of brewing malt liquors, viz., conden-sing the vapor of boiling wort, returning it to the wort in a liquid state, and termenting the two liquids together, substantially as herein set forth. 24, Cooling Lae wort and condensed vapor separately, and a fitewards mix-ing the two liquids together, before fermentation, substantially as herein specified.

specified. 3d, Employing a tank or reservoir, 1, with its cooling device, in combina-tion with tank, b, with its usual heating device, substantially as shown and

72,990.—HARVESTER RAKE.—Vanderlyn H. Felt, Roches-

72,990.—HARVESTER NARE. VALUE, TO SUBJECT TO THE NY TET NY. I claim, in combination with the reciprocating rate, F, provided with pro-jections, q, the arrangement of the connecting and operating parts, consist-ing of the loose pulley. H, provided with the reacting spring, 1 and operated by lever, K, the endless chain, G, the bingerd bar, or, and the stop and projec-tion, m' m, the whole operating in the manner and for the parobers set forth. 72,991.— EXPANDING PULLEY FOR BRAIDING MACHINE.— Jesse Fewkes, Newton, Mass, assignor to Silver Lake Manufacturing Company.

Jesse Fewkes, Newton, Mass., assignor to Silver Lake Manufacturing Company. I claim the combination of the rods, b, pivoted to the pulley. A, with the late, C, constructed as described, and the screw, D, for governing positively be position of said rods, substantially as described, and for the purpose set orth.

72.992. — India-Rubber Door Spring. — B. G. Fitzhugh Sykesville, assignor to himself and William G. Maxwell, Baltimore, A I claim an India-rubber door soring, that is vulcanized in a curved or cular form, and applied to a door in a straighter form than that in whi was vulcanized, substantially as and for the purpose herein described represented.

represented. 72,993.—HOLDER FOR GUM SCRUBBER.—Leonard Flecken

ensine, Manor Township, Pa. I claim the arrangement of the two corrugated or fluted plates, P. R. for the surpose of folding tace sembling edg. so I findia-ubber, together with the nee of a socket and screw bolts, substantially in the mannershown and spe-vited.

72,994.—Composition of Matter for the Manufacture OF EMERY CLOTH, POLISHING WHEELS, ETC.-Lewis Francis (assignor to himmelf and Cyrus H. Loutrell), New York city. I claim a composition of matter for various purposes, when the same shall be made substantially as herein described.

1 Claim a substantially as herein described. 72,995 — SCISSORS SHARPENER.—L. M. Gilbert. Warren, Mass. 1 claim a scissors sharpener consisting of the bevelled file, A. combined and tranged with the circular guide piece, C, the parts being constructed and the whole arranged substantially as and for the purpose specified. 72,996.—MEDICINE FOR 'THE CURE OF HOG CHOLERA.—Geo.

W. Gish and Wm. H. Fergnson, Daviess County, Ky. We claim the medicine made by mixing, or by using at the same time, the gredients described, for the purposes set forth. 2,997.—MANUFACTURE OF CLAY PIPES.—Geo. D. Goodrich,

We take the selective of the purpose of the purpose of the selection of the purpose of the selection of the purpose of the selection of the se

72,998.—HAT BLOCKING MACHINE.—Wm. C. Griswold, New York city. The ring, A, to which the clamps are hinged when elastically seated, sub-stantially as and for the purpose specified. 72,999.—HARVESTER.—Samuel B. Haines, Lewistown, Pa. I claim, 1st, The leading wheel, A, attached to the shoe, G, as herein de-scribed and represented, and performing the double function of supporting the inner end of the finger beam and operating either the rake or reel, or both, as and for the purpose set forth. 2d, The grain wheel, M, in combination with the divider, L, provided with the finances, dd', the latter being notched at d', and adjustable hearing, O, all constructed and arranged substantially as described, so as to admit of the wheel, M, and secure the protection of the latter by the divider, as ex-plained. 73,000.—SAWING MACHINE.—I. R. Harman (assignor to him-

self and Thomas J. Meginnis), Whitestown, Ind. I claim the combination of the movable center, 15, with slides, 7 and 7, nd 6, and eccentric cam, 5, and spring, 13, all constructed and operating ubstantially as set forth.

-APPARATUS FOR CLARIFYING SACCHARINE JUICES. 73,001

L P. Harris, Crestine, Ohio. I claim, ist, The adjustable float, and its combination with the siphon. 2d, The combination of the adjustable float and siphon with the suphon. 73,027.—LATHE.—L. F. Munger, Rochester. N. Y.

beam, with a layer or cushion of wood interposed between them, substan-tially as described. 10th, The column, a, composed of ribbed segments, p, in combination with the flanged bars, r, which serve to unite the segments together, substantially as described.

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73,004.-VEGETABLE CUTTER.-T. J. Hatfield, Warsaw, Ind. 73,004.—VEGETABLE CUTTER.—T. J. Hatfield, Warsaw, Ind. I claim the combination of the reciprocating hed, B, adjustable knives, 12 S, Blates, B'B, arranged with set screws, X X, box, D. follower, E, and springlever, o, substantially as and for the purpose herein set torth. 73,005.—FLOWER STAND.—C. J. Hauck, Williamsburg, N. Y. I claim a flower stand, composed of one or more sections, each made of a platform, a, with a ring. b, and one or more standards. c, supporting a guide ring, d, all as shown and described. 73,006.—Toy.—John E. Hawkins, Lansingburgh, N. Y. I claim the combination and arrangement of the ball driver or pocket C, and its spindle, B, with the stock or handle. A, and cup, D, in mauner sub-stantially and for the purpose as herein described.

73,007.—FIRE ESCAPE.—Edward Hawthorne, MOUNTAIL VIEW, Cal. I claim the apparatus constructed, arranged, and operated substantially as and for the purpose described. BEDETEAD.—Wm. Heath, Bath, Me.

1 claim the apparatus constructed, arranged, and operated substantially as and for the purpose described.
73,008.—INVALUD BEDSTEAD.—Wm. Heath, Bath, Me.
1 claim the arrangement and application of the windlass. G, and its cord, H, and the gear, e, and bet t, thereof, with the lock frame. B, and the main frame, A, of the bedstead, substantially as described.
Also, the combination of the movable bracket, N as sit forth.
adso, the combination of the movable bracket, N, assit forth.
Trame and the seat frame associated, such as sit forth.
and not be the seat frame associated, and search as sit forth.
Trame and the seat frame associated, such as a clorating mechanism. consisting of the shart H. Its server or screws. k k and one or more wedges, 11, and inclined planes, K K, to operate together, as explained.
Also, the combination of the togetes, as explained.
73,009.—HAY FORK —John G. Hitchcock, New York city.
T claim ist, Holdna't the times against end pulb by means of the projections or shoulders, b, arranged to lock azainst the ferrule or cnp. C, while the last ter is faced on the handle by the screw, D, or its equivalent, all substantially as herein set forth.
21, The withindescribed construction of the fork tines, B, with a shoulder, b, at the commencement of the root of the tine, adapted to apply against a solid end of the cap. C, substantially as and for the purpose there in set forth.
23,010.—BOOTS.—James Holland, Conshohocken, Pa
I claim a metal ring or bent wire, d, applied to the upper edge of the boot leg, within the folds of the strips, A and A', as set forth, for the purpose specified.
73,011.—FIELD FENCE.—D. S. Humphrev, East Townsend. O.

specified. 73,011.—FIELD FENCE.—D. S. Humphrey, East Townsend, O. Iclaim the combination of two or more wires, B. with the posts, A; and slats or pickets, d, when secured thereto by means of the hook spikes, C, as specified.

specified. 73,012.—LANTERN.—John H. Irwin, Chicago, Ill. I claim, in combination with the burner of a lamp, and a globe or protec-tor thereof, one or more tubes or passages, D, or their equivalent, arranged to operate substantially as specified and described. 73,013.—ALARM LOCK FOR DOORS.—Anthony Iske, Lancas-

'ter, Pa. I claim the combination and arrangement of one or two hooked bolts. C' lever, D, sleeve, E, with the arm, B, on the vibrating plate, with or without its knob, b, when applied to a lock for the purpose of connecting the same with the bell or alarm, in the manner specified. 73,014.—FASTENING OF JAR COVER.—J. F. Johnson, New York terms

13.014.—FASTERING OF SILL CONTROL OF SILL OF CONTROL OF SILL OF CONTROL OF SILL OF CONTROL OF CO

substantially as described. 73,015. — WATER HEATER FOR FIRE ENGINES.—Peter M. Ka-fer and Joseph M. De Lacy, Trenton, N. J. We claim the arrangement of the checks, A A and E, elastic pipes, F, F, condensing coll, D, and with cocks B B and D D, levers, c d, pin, e, compen-satinglevers, b b, wrenches, a_a, constructed substantially as set forth.

condensing con, D, and with COCKS B B and D D, levers, C 4, Din, e, "ompen-sating levers, b b, wrenches, a , constructed substantially as set torth. [73,016.—FARM GATE.—Israel L, Landis, Lancaster, Pa. I claim, lat, The uprisht lever, K, its spring, N, clip, M, and latch, H, whon arcaneed, combined and operated by the rope, S, and pulleys, T, as herein described, and for the purposes set forth. 2d, The construction and ombination of the bent hinge. C, with its inside block, F, as herein described, and for the purpose set forth. 3d, The dagonal rail, X, which its clip, Z, when combined and operated with the upper rail, G, of the gate, as herein described, and for the purpose set of the D.

73.017.—BREAD CUTTER.—John Madden and I. G. Haserot.

13,017.— BREAD CUTTER.—JOHN Matten and I. G. Halserot, Cleveland. Ohlo. We claim, 1st, Operating the binged or jointed table, F, by means of the cam, H, substantially as and for the purpose set forth. 2d, The adjustable table, F, and cam, H, in combination with the knife, substantially as and for the purpose set forth. 3d, The arrangement of the knife in two sections, D D, and jointing the same together, as seen at J, in combination with a table and slide, for the purpose set forth.

73,018.—Confection or Cake.—Wm. Manning, Chelmsford,

13,013.—CONFECTION OR CARE.— Will. Mainting, Chernisolut, Mass. Iclaim a new and improved combination cake, as herein described, using for that purpose the aforesaid incredients, or composition of matter, or any other substantially the same, and which will produce the intervied result. 73,019.—LINE REEL.—Lynian Martin, Indianapolis, Ind. I claim the combination of the frame, A, drum, B, crank, C, the platet, D, and pin, G, for the purpose of a line reel, all arranged and operating as set forth and described. Computer Terry Honore, Matter, Marting, Indianapolis, India

73,020.— SEEDER AND CULTIVATOR.— Henry S. Matteson,

Stockton, Cal. I claim 1st, The beams, C. B, in combination with beams, D, and cross

peams, I, with draw bar, L. 2d, The chest, A, wooden shaft, h, and iron slide, i, in combination with rooked pin, k, handle, O, crank, b, connecting rod, c, when used and ar-anged for the purpose hrein specified.

73.021.—Apparatus for Collecting Precious Metal.—

13,021.—APPARATUS FOR COLLECTING FRECIOUS MEPAL.— James T. McDougall, San Francisco, Cal. I claim. Ist, A sluice containing obstructing standards, so placed as to convert the current into eddles, substantially as herein described. 2d, The iron standards, B C, together with the removable copper tubes, D, or an equivalent device, constructed and arranged substantially as above specified. 3d, The plugs, a a, for raising and lowering the tubes, substantially as de-described.

4th, The copper plates, b b, when employed and attached to the sides of the sluice, as and for the purpose herein described. 73,022.—CORN PLANTER AND PLOW COMBINED.--- Patrick

10,022.—CORAT FLANTER AND FLOW COMBINED.—FAITICK Meisaac, Waterloo, Iowa. I claim the herein described arrangemento: the several parts constituting the corn planter, and the mode herein described of attaching the same to a common plow, as specified. 73,023.—CHURN.—Gabriel McWilliams, Fostoria, Ohio. Lolow the the here a platen F as arranged in acaptingtion with the assa.

common plow, as specined.
73,023.—CHURN.—Gabriel McWilliams, Fostoria, Ohio.
I claim the tube, B, piston, F, as arranged in combination with the case, A, and operated in the manner and for the purpose set forth.
73,024.—HARROW.—John Mercier (assignor to Israel Kinney), Detroit, Mich.
I claim, ist, The blocks or balls, A A, etc., with holes cast or bored, and the rode, B B, etc., when constructed substantially as and for the purpose described.
2d, The combination of the above described blocks or balls, A A, etc., and B B, etc., in econjunction with harrows or cultivators, when constructed substantially as a described.
2d, The disk, G, the dramath thar, H, and the pin, I, when attached to cultivators or harrows, in the manner and for the purpose described.
73,025.—SLEIGH RUNNER.—John G. Meiler, Plymouth. Mich.
I claim, ist, The constructed of metal runners, of the shape set for h. provided with clips, B, and provided with means of connection, substantially as and for the purpose described.
2d, The diment, constructed from iron straps, H and I, provided with eutom bolt, K, and the shape set forth.

purpose described. 3d, The combination of the above described runners and attachments, when constructed substantially in the manner described.

when constructed substantially in the manner described. 73,026.—Corron BALE THE.—Carson Mud ge, New Orleans, La. I claim the making of the two additions! openings or holes, A. in cotton flux, designed for use in connection with he op irons, so that the same may be used with equal lease for fastening together the ends of wire rope or wire, as herein described.

I claim, in combination with a disk, provided with gear teeth, and having a	and pipes, d and e, substantially as described.	I claim, in combination with the lathe centers, placed vertically, or nearly
cam for working in connection with a stationary plate cam, as described, a	3d. A cane juice clarifier, constructed and operated substantially as de- scribed.	so, over the front of the lathe, the ways, a b, on said front of the lathe, for the slide rest to move on, for the purpose of adapting the parts to the differ-
pinion, which meshes into the teeth of the disk, and on which pinion a fric-	4th, The combination of a cane juice clarifier, when constructed and oper-	ent operations, as herein described and represented.
tion clamp or gripe operates to impart intermittent i otative movements to said disk, for the purpose of giving movement to a stock or cloth clamp, sub-	ated substantially as described, with heating and evaporating pans, for the	Also, the combination of the centering rod with the mandrel and its ad-
stantially as described.	purposes set forth.	justable bearings, substantially as described.
72,975.—Cultivator.—Daniel Churchill, Ionia, Ill.	73,002.— Plow and Harrow Combined.— James Harsha,	Also, in combination with a planng or chasing tool, that receives motion
I claim. 1st. The plates. I and F. when constructed and arranged to oper-	Circleville, Ohio.	trom the face plate or mandrel of the lathe, a slide rest or holder, that has a
ate substantially as described.	I claim the bar or chain, A, lever, B b, and chain, D, arranged and applied	vertical. horizont. 1 and swiveling motion with regard to said tool, as and for the purpose substantially as described.
2d. The plates, J. provide d with the studs, c. for securing and holding the	substantially as described, for the purpose of combining an ordinary plow	12 099 Vise Crawb H O Nauon Now Vork city
beams to the main rame, and having also the slots for adjusting them, as set	and barrow.	73,028.—VISE CLAMP —H. O. Nauen, New York city.
forth	73,003.—ELEVATED RAILROAD.—Charles T. Harvey, Tarry-	I claim a vise clamp, composed of two jaws, A, hinged together by means
3d, The combination of the bent rods, T, and cross-rod, H, pivoted to the	towa, N. Y.	of shanks, a, and a pivot of pivots, b, and provided with lips, d, on their backs, d, removable lining, e, on their working faces, and a spring, c, which
main frame, and arranged to operate as described.	I claim, 1st, The arrangement and combination, with the column, a, of a	opens the laws, substantially as herein set forth.
72,976.—FARM GATE.—William D. Clark, Ottawa, Ill.	false base, t, made in sections, and secured around the column at the surface	
I claim the peculiar and particular arrangement of the guides and rollers	of the ground, substantially as described.	73,029.—VELOCIPEDE.—Martin Newman, Unadilla, N. Y.
described, when attached to the gate, operating and constructed as set forth.	2d, In a supporting column, the supplementary arc shaped pieces, V, in combination with the branching arms of the column, a, with or without the	I claim the device for propelling velocipedes, constructed substantially as
72,977.—Composition for Roofing.—Allen Cody, James	triangular filling pieces, u, substantially as described,	
Bartlett, and Henry M. Jones, Ukiah city, Cal.	3d, The base plate, n, in combination with the ears, m, arranged to fit the	73,030.—PULLEY BLOCK.—I. W. Norcross, Boston, Mass.
We claim a compound cement for roofing purposes, prepared and applied substantially in the manner and for the purposes set forth.	triangular interspaces of the column as ribs or flanges, 2, substantially as	I claim, 1st, In pulley blocks, making the several checks by casting them independently and separate from the other parts, substantially as described.
72,978.—Eye GLASS.—E. Merritt Cole, Southbridg J. Mass.	described.	2d, The cast studs. E, interposed between the cheeks, and held thereto by
	4th, The arrangement and combination, in one piece, of the plate, k, the cap plate, i, and the connecting cylinder. j, substantially as described.	rivets or other suitable fastenings, substantially as described.
I claim the arrangement and application of the tenon and mortise with the hps, and with respect to the joint screw or pin of the spectacle or eye-glass	5th, The construction of the capplate, i, with its friction rollers, l, substan-	3d, Dividing the stud, E, and combining the same with the eye, D, substan-
frame, substantially as specified.	tially as described.	tially as described.
72,979.— ANIMAL 'TRAP.— William Cover, Jenner's Cross-	6th, The arrangement and combination, in the cable guide, e, of the wood-	4th, The skeleton partition or cheek, H, substantially as described.
Roads. Pa.	en foundation, 4, and wooden side beams, 5. with the metallic bottom plate, f,	5th, Arranging anti-friction rollers, I, beneath the axles of the pulley, sub- stantially as above described, in combination with a pulley block of any form
I claim a trap, consisting of a box, A, having one part closed by a cover,	and top right angled bars, g g, substantially as shown.	or construction.
and a partition, B, baying an opening through it, and with the revolving	7th, The return cable guide, e', make substantially as described, by invert- ing the cable guide, e, and combining there with the inverted cap, b, substan-	6th, The hollow partition. H. made substantially as described, for the pur-
wire cylinder, C, mounted in the open portion of the box, A, all constructed	tialy as described.	pose of containing an anti-triction roller, one or more, to support the axles
and arranged for operation, as shown and described.	8th. The arrangement and combination of the upper rail, b, the I shaped	of the pulleys, and to form a recess for the shank of the eye.
72,980.—METHOD OF ROASTING METALLIC ORES.—Francis	rails or beams, c c, and the wooden filling, d, substantially as above de-	73,031.—SAW MILL.—C. D. Olmstead, Williamsport, Pa.
W. Crosby, Toledo, Iowa.	scribed.	I claim, 1st, The stirrup, with its fast and loose sides. holding in one side the section of a ball, and provided with set screws for adjusting purposes, all
I claim the method, substantially as herein described, of obtaining a p c-	sth, Arrangement of the main ran, b, upon the top of an under rail or	the section of a ball, and provided with set screws for adjusting purposes, all

arranged and constructed as shown and descr bed, and for the purpose indi-

60

Cated. 2d, In connection with the stirrup, as shown, the construction and arrange-ment of the various parts which constitute my muley block, as described and for the uses indicated. 73,032.—STEAM TRAP.—Chas. E. Palmer, Manchester, N. H.

I claim the movable valve seat, C, constructed with a partitioned coupling A B, substantially as set forth. 73,033.— RAIL SET.—George Patterson, Augusta, Mich.

I claim the withingdescribed device, C D E, adapted for bending or straight-ening railroad rails, substantially as specified. 73,034.—COTTON BALE TIE.—Joshua L. Phillips, Washington

73,034.—COTTON BALE TIE.—Joshua L. Phillips, Washington Conty, Miss. I claim the device herein described, consisting of the central bar, A, when provided with the wings, B B', in which, at the points, a a', are rooves tore-ceive the hand, a longitudinal opening for the ends of the band, and holes, d d', as and for the purpose herein set forth. 73,035.—AncHOR.—D. C. Pierce, Clayton, N. Y. I claim the fenders or rods, C C D, constructed as shown, attached to the fulkes and stock of the anchor substantially in the manner as and for the purpose set forth.

purpose set forth. 73,036.—ANCHOR.—D. C. Pierce, Clayton, N. Y. I claim the shackle, E. in combination with the bars, C C, and the pivoted fuke, A, all arranged substantially as and for the purpose specified. 73,037.—PICKER MOTION FOR LOOMS.—Joseph Pilkington, Frankford Ra

73,037.—PICKER MOTION FOR LOOM. Frankford, Pa. Iclaim the combination of the weight, 2, shaft, 0, arm, g, and staff, d, all constructed and arranged as and for the purpose described. 73,038.—PUMP VALVE.—Wim. H. Foliarč (assignor to Downs & Co.'s Manufacturing Company), Seneca Falls, N. Y. I claim the combination of the concave disk, g, of the valve, with the ele-vated seat, a, arranged as described, and operating in the manner and for the purpose specified. 72,039.—LOCK COUPLING FOR GAS FIXTURES.—Thomas L.

(3)059.—LOCK COUPLING FOR GAS FIXTURES.—Inolmas L. Reed, Providence, R. I. I ciaim the coupling constructed substantially as described, with a male and female sleeve, and a neural rescharge cavity, and a helical groove, and a peg or stud, in combination, all as and for the purpose set forth. Also the packing ring composed of indiarrabber and leather united together, substanti..ly as described for the purpose specified. To CAR SOCKET.—Thos. L. theed, Providence, R. I. I claim the shell of the socket constructed with a cylindrical cavity, and a shoulder, e, and a lip or ledge, I, as described, and in combination with the packing n, constructed substantial was and for the purpose set forth.

snoulder, e, and a lip or ledge, i, as described, and in combination with the packing n, constructed substantially as and for the purpose set forth. 73,041.—AFPARATUS FOR SEPARATING GOLD FROM ORES.— Thomas Bhoads, Ottawa, 11. I claim the inside double helix, C, the helix B, inside kettle, A, the feed pipe, F, and the heating flue, H, when in combination with each other, constructed substantially as and for the purpose described in the ioregoing specification.

8pecinc 78,042 -DRIVING BRIDLE.-Archibald Rice and Lewis Leach

Freeno, Cal Freeno, Cal We claim the combination and arrangement of the straps, a s, with loops or pulleys, c c and d with the reins, A, hitched to the post hook, and rnn-ning through the loops or pulleys, c c, and to the hames or saddle, substan-tion of a strange of the st

taily as described. 73,043.—DEVICE FOR SECURING STOPPERS TO BOTTLES.

Wm. Hichards, Anburndale, Mass.
 Iclaim a device for securing corks or stoppers to bottles, demijons, etc., substantially as described.
 73,044.—MACHINE FOR POUNCING HATS.—John C. Richard-son, Newark, N. J., assignor to himself and James H. Prentice, Brook-bra, N. Y. J. Status, Status,

Non Newark, N. J., assignor to himself and James H. Frensloe, Brook lyn, N. Y. Iclaim, 1st, Mount ng the partially revolving frames, B and C, and their connections on the centers, b and c, arranged out of hime with the shafts, D and M, and arranged to operate relatively to each other substantially as and for the purposes herein set forth. 2d, Also, In pouncing machines, the sand paper. W, or its equivalent, the beveled parts, P and R, and the buttons, Y, and grooves, r, or their equiva-lents, combined and arranged for joint operation as a pouncing wheel, sub-stantially as and for the purposes herein set forth. 73,045.—CHECK FOR PICKER STAFF.—Elisha Robbins, Wor-cester Mass.

(a) U40. — UHEUN FOR I ICLARD STATE. — Inhome trootening, it is center, Mass. I claim the arrangement and appleation of the adjustable spring brake with the picker staff and shuttle box, as described. Also the combination and arrangement of the adjustable spring brake and the arch spring with the shuttle box, the picker, and the sword of the lay the whole being substantially as spec fied.

73 046 -STUMP EXTRACTOR.-John B. Robertson, New Or-

leans, La. I claim the truncated pyramidal frame structure, B C, when the same is supported at its frontend by the sale of the wheels, A, and at its rear end by the pivoted adjustable standards, E, in combination with the rod, F, screw, collar, or nut, N, metallic plate, M, circular collar, b, and pivoted standards, b, when these several parts are constructed and arranged for conjoint opera-tion, substantially as herein described, for the purpose set forta. 73,047. -HOOK FOR WHIFFLETREES -D. D. Robinson, Niles, Mich

Mich. Mich. Iclaim the hook, C, ployed in the groove at the outer end of the socket, a connected closely to the projection. Byform ng a perfect loop, and held in place by the spring, a, when all are constructed and arranged as herein set

73.048.-Mode of Lasting Boots and Shoes.-Ichabod R.

73,048.—MODE OF LASTING BOOTS AND SHOES.—Ichabod R. Rogers (assignor to Geo. E. "artiett), Lynn, Mass.
I clam an innersole, A, of any suitable material, provided with a row of stitcbes, a, by which the upper leather is united to it by stitcbes, substan-tially as and for the purpose set torth.
73,049.—GATE.—W m. H. Rogers, Harlen, Ill. I claim, ist, The combination of the gate, a', with the cord, n. and the roller. u, sheaves. w, and handle, m, or an equivalent, arranged for the pur-pose of open ng the gate, substant ally as described.
73,050.—HOREEHOE CU HION.—G. E. Rust, Boston. Mass. I claim the double and or cushion composed of leather and feit or other.

Icialm the double pad or cushion composed of leather and felt or other fbrongeloth, and interposed between the hoof of the horse and the shoe substantially as herein described. 73,051.—TRACTION ENGINE.—Theodore Scheffler and Henry

Morrison, Paterson, N. J. We claim, Ist, in traction engines for common roads, supporting each wheel on an independentsbort axie, running in suitable bearings, situated on each side and close to the wheel, in the manner and for the purpose de-soribed.

on each side and close to the wheel, in the manner and forthe purpose de-scribed. 2d, The arrangement of the loose clutch J, and the internal and external clutches, K and L, in combination with the levers, and b, or their equiva-lent, operated by the steam cyinder, M, the whol' being arranged and com-bined in the manner and for the urpose substantially as set forth. 3d, Connecting the driving wheels, H, with the driving shaft, F, through chains, or their equivalents, passing over clutches, arranged and operating substantially as specified. 4th, Driving the forward wheels, P P, by a separate and independent cylin-der or cylinders attached to the movable truck, Q, and turning with said truck and wheels. 5th, The center piece, R, fast to the truck, Q, with suitable passages for the steam and exhaust through said center piece, in combination with the socket S and guide frame, T, supporting the same box, C, or end of the boiler, the whole being constructed and arranged in the manner and for the purpose de effect.

which being constructed and arranged in the manner and for the purpose de-scribed. 6th, Operating the ropes or chains that turn the forward truck and wheels of the engine, to guide or direct its movements by means of hydraulic cylin-ders operated by a force or steam pump, substantially in the manner and for the purpose set for the and described. 73,052.—BED BOTTOM.—Adolph Schlingman, Alexandria, O.

73.052.—BED BOTTOM.—ACIOIPI SCHIIIgman, AleXaluria, O. I claim, 1st, A bed bottom consisting of the cord, F, and transverse perfo-rated slate, GI G2 G3 G4, with or without the longitudinal stiffening slata, H, the cord being rove forth and back through said slats, and held at the ends by pins, substantially as described and represented. 2d, The combination with the cord, F, and transverse, GI G2 G3 G4, of an adjusting or teptening rail, E or K, applied and operating substantially as described and represented. 73,053.—ROCK DRILLING MACHINE.—Carl Schumann, Frei-berg, Bayony assignor to Edward H. Jackson Boston Mass.

(3)050.—ROCK DERIDING MACHINE.—CATI SCHUIHBILL FTEI-berg, Saxony, seignor to Edward H.Jackson, Boston, Mass. I claim, ist, Imparting a forward and rotating movement simultaneously to the valve rod of a rock drill, by means of the levers, e' e', and their con-nections, substantially as described. 2d, The rotat ng. ev.de consisting of the levers, e' e, operated by means of the guide, bi, on the piston rod, E', the link, f, guide rod, f', pawl, o, pivoted on the guide rod, f', pawl, oo, pivoted on the guide pieces, n, and the guide pieces, m n, and ratchet wheel, H, substantially as described.

²p, Also in combination with the close heating or mixing chamber, an in-jecting apparatus, worked by a volume of escaping steam to force the hy-drocarbon into said chamber against the pressure of steam therein, substan-tially as described. 73,058.-RAILWAY CHAIR.-Isaiah Tillson, South Abington

Mase. I claim the arrangement and combination of the jaw arms and their chambers in the chair, with the jaws and the rails arranged within the chair, as set forth. Also the combination of thecovering plates with the jaws, their arms, and the chambers for receiving such arms, as set forth, such covering plates scriving to prevent the jaws and their trims from being thrown out of the chair by vertical movements or vibrations of the rails. Also the combination with the chair, movahle jaws, to act against or grasp opposite sides of the rail or rails, and he pressed against such by a weight or wheel while resting on or passing along on such rail or rails, or either of them, as set forth.

тлет, аз ве 73,059.— WINDLASS.—Lafayette L. Treman, Ithaca, N. Y.

(73,059.—WINDLASS.—Lafayette L. Treman, Ithaca, N. Y. Iolaim, ist. The enlarged ends of the levers extending and bifurcating over the ratchet wheels. E, so as to embrace the said ratchet wheels by a sliding surface, P^m, as set forth.
2d. The adjustment of the said levers and ratchets, made as described, on the shaft, C, within the bits, A, for the purposes specified.
3d. The combination and arrangement of the levers, ratchets, and clicks, constituting the working parts of the windlass, with n or mside of the bits, for the purpose specified.
73,060.—PAINTER'S (JAN VAS.—Chas, Volkmar, Baltimore, Md. Iclaims carves or other material prepared for receiving colors or other substantially as herein described.
73,061.—HARROW.—John N. Wallis and Theodore Wallis, Fleming, N. Y.

Fleming, N. Y. We claim, 1st, The flanged cylinder, C, when used as and for the purpose specified. 2d, The double nnt or shellpiece. F, when used in the manner and made to subserve the purpose above set forth. 3d, supporting the teets of frags or barrows by means of a cyl nder, which shall allow the teeth to rotate as and for the purpose specified.

3d, bupperting the teetn of drags or barrows by meansot a cyl nder, which shall allow the teeth to rotate as and for the purpose specified.
73,062.—MODE OF CLOSING UP BOOT LEGB.—Preston Ware, Newton, and Calvin R. Tilton, Tisbury, Mass.
We claim making a boot jeg whose diverging edges are united by a lap seam by machinery, substantially as described.
73,063.—Ewinko MACHINE.—Albin Warth, Stapleton, N. Y. I claim, 1st, Making the needle slide, M, and the guide rod, P, either or both, in the form of tubes, closed below, so as to prevent oil used in lubric acting them from failing on the table, substantially as described.
2d, The combination of the guide rods, O and Q, with the holding plate, S, substantially as a described.
3d, Making the needle and pressure guiderods, O and Q, either or both, bollow, to allew the escape of air, substantially as described.
4th, The combination of the thread guide, s7, with the presser foot, substantially as described.
6th, The combination of the grooved shuttle with the holding plate, S, saud for the purpose set forth.
7til, The disconnected friction plans in the shuttle, arranged substantially as described.

icse Sth

described. Sin, The shuttle, S', constructed as shown and described. Sth. The spring, L, arranged so as to bear upward against the needle slide, arbs tan ially a described. 10th, The combination of the eccentric, r?, universal joint, G I, rod, F, and needle lever, C, constructed and operating substantially as and for the pur-pose described.

pose described. 11th, Thetension device, X y, and the take-up, W, arranged and combined substantially as described. 12 The combination of the reversible side, r, the nut, n, bav ng arms, p p, and the rock shaft, u, having toos, t, substantially as described. 13 The leven, w, provided with two shoulders, 1, 1, in combination with the spring, X, substantially as described. 14th, The adjustable plate, 7, for regulating the length of the stitches, in combination with the jaws, 5, 5, of the feeding apparatus, substantially as

described. described. 18th, The box that holds the feed wheel, composed of the rigid plate, 11, 18th, The box that holds the feed wheel, composed of the rigid plate, 11, the spring plate, 12, and the elastic rings, 14, 16, substantially as described. 18th, The hollow axis in which the feed wheel tarns, in combination with the bollow hub, closed at one end, substantially as shown and described. 73,064.—SEWING MACHINE.—Albin, Warth, Stapleton, N. Y. 1 claim, ist, The arm, D, and brace, H, in combination with these bother and which the shaft, C, table, A, and platform, G, substantially as and for the pur-pose described. 4. The independent take up K, and cam E, in combination with the double purpose sate for the purpose sate for the purpose sate for the standard operating substantially as and for the purpose sate for the

poince snucle, S, constructed and operating substantially as and for the purpose set forth Sd, Making the shoulders, h, of the double pointed shuttle, S, radiating from the center of the shuttle race, substantially as and for the purpose de-scribed.

scribed. (th, The arrangement of the winding attachment, m, in combination with the elastic center, j, substantially as and for the purpose set forth. Sth, The cap, k', in combination with the elastic center, j, and with the shuttlerace, constructed and operating substantially as and for the purpose described.

described. 6th, The booked pin, p', in combination with the pin, p, in the shuttle, sub-stantially as and for the purpose set forth. 7th, The movable center, y, in combination with the adjuggable center pond, r, constructed and operating substantially as and for the purpose set

forth. 8th, The adjustable cap, M, on the main cam, E, combined and operating in connection with the feed bar, L, substantially as and forthepurpose set forth.

. The recess, w, in the presser foot, in combination with the adjustable r * constructed as described, which keeps the braid up spainst the

forth. 9th. The recess, w, in the presser foot, in combination with the sciustable spring. x, constructed as described, which keeps the braid uD scianst the shoulder, y, substantially as and for the purpose set forth. 73,065.—SIFEER RACK.—Jacob D. White, Kilbourne, Ohio. I claim a feeding rack or mangers as a b b c c I J, provided with an inclined hunged lid or cover, d, and a self adjusting feed rack, g g g J J, which is held in a vertical position by the pieces of leather, b2 th2 affir rd to each erd of the rack, and so arranged as to press backwardly on the feeding material by its own gravity, without any auxiliary appliances, constructed and ar-ranged substantially as herein shown and described, for the purpose set forth. Note: Specified.
73,089.—LUBRICATING COMPOUND.—L. J. Grand-Schindler, Albany, N.Y.
We claim a lubricating compound made of the ingredients above specified, and having the property that it will melt at a temperature of from 160° to 110° as set forth.
73,090.—FIELD FENCE.—I. A. Gormly, Bucyrus, 'Ohio. Iclaim the combination of metal posts, anchors, and braces, with dowel plus and wedges, substantially as described.
Note: BASE BURNING HOT-AIR FURNACE.—James Gray,

-Means of Attaching Handles to Dippers.-73.066.-

John B. Wood, Cranston, R. I. I claim slitting or otherwise removing a portion of the material of the tick or handle which is beld in the metal socket piece, when combined with the metal socket, substantially as and for the purpose described. 73,067,—FELLER FOR SEWING MACHINES.—Enoch S. Yent-cer and Alvad K. Woody, Ottury, III.

read Alfred K. McCain, Ottawa, Ill. We Claim, 1st, The attachment of Doth the single turner, a, and the gage or guide, b to the preser foot, by the means and in the manner substantially as herein d sorthed. 2d. The aincle turner a the single turner of tur

berein d scribéd. 2d, The single turner, a, in combination with an adjustable gage or guide, f, adapted for felling seams, substantially as described. 3d, The attachment of the turner, a, of a feller, to an elastic holding plate, B, substantially as described. 73,068,—LAMP CHIMNEY FASTENING.—John Allen and Chas.

E. F. Lewis, Washington, D. C. Weelam, 1st. The circular and grooved holder, divided into segments, op-rating on binges, and held by fastenings, as herein described and for the purposes set forth. purposes set forth. Also the use of an elastic or rubber ring, fitted into the groove of the hold er. for the nurposesset forth.

r, forthe purposesset forth. 73,039.—VALVE GEAR.—John F. Allen, New York city. 73.039.-

I claim the arrangement of the governor and link motion with reference to the wrist motion, constructed as described, to produce an a utomatic control of the induction raives, substantially as specified. 73,070.—FRICTION BOLLER FOR BAND SAWS.—Thomas A.

Albany. I claim, ist, in a base burning stove or furnace, which has a supply cylin-der, an escape nazage from the chute, J, through the horizontal pipe, d', or the hollow ring, e', futo the flue, F, substantially as described. 2d, Providing the chute, J, leading through one side of the external easing into the cylinder, E, with a damper or valve, g, substantially as de-scribed. 3d, The construction of the double-wall cylinder, D D', annular chamber, d, and a r-passages, f, substantially in the manner shown and described. 4th, The combination of the magazine, E, outer casing, H, with the hollow yean.work section, F, and the annular chamber, d, with air passages, f, crossing it, of a base burning air brating furnace substantially as accend-ing annular flue, d, leading from the fire chamber, substantially as and for the combination of the magazine, E, contral exit flue, F', and ascend-ing annular flue, d, leading from the fire chamber, substantially as and for the porpose described. 6th, Conducting the heated products of combustion, rising from the fire part c. around and over the coel-supply cylinder, and discharging them into a central flue directly overthe center of the said supply cylinder. In combina-tion with warm-air chamber, G and 'd', substantially as described. 7th, Making the iron protector or the gnard plates, k k, of the fire bricks, or their equivalents, portable in segments, so that they may be removed invogh the lower ond of the magazine, sub that they may be removed angazine, E, an annular circulating air chamber, and asming apart angazine, E, substantially as described. 8th, in the construction of a base burning, sir heading furnace, having a magazine, E, substantially as described. 9th, The combination of the escional the top of the outer casing, substantially as described. 9th, The farting arched opening of the ash pit, A', formed by the ncl ned plate, ag substantially as described. 9th, The combination of the sectional lining, h, with annular circulating gp (75,070.—FRICTION KOLLER FOR BAND SAWS.—I HOMES A. Ballou, Cleveland, Ohio. I claim the roller, A. consisting of the head, A', and follower piece. D, and pieces of raw hide, C, clamped between the head and follower by meaves of clamp screws 1, all constructed to operate substantially as described. 73,071.—RAILWAY SWITCH.—Truman G. Beecher, Beaver Dam, N. Y. I claim, 1st, The rails of a portable switch. constructed with flanges, for at-taching them to the track of a railroad, and locking m in position, sub-stantially as set forth. 2d, in combination with such rails, the ties, D, constructed substantially as described.

2d. Also, the manner of fastening the stakes to the bolster, for the purposes and substantially as hereiu described. 3d. Also, the manner of fastening the reach together and operating the same, the castion socket, C. the sleeves and we ges, the shark, E, and the wrought fron fillet for strengthbring the same, for the purposes and substan-tally as herein set forth. 73,077.—WATCHKEY PROTECTOR.—A. J. Chase, Boston, Mass. I claim a vulcanized india-rubber key guard, consisting of the bulb, d, and loop, f, made substantially as and for the purposes herein shown and set forth.

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73,078.—Combined Latch and Bolt.—Pascal P. Child (as-10,010.—UMBINED LATCH AND BOLT.—Pascal P. Child (as-signor to S. R. Fox Manufacturing Co.), St. Louis, Mo. I claim the eliding bolt latch, C, in combination with the keeper and strik-er, D, the latter being constructed as descr bed, with rebared projections, d2, which act as strikers for the latch when it is used as such, and the hasp rail, d, which confines, the latch when acting as a bolt, as shown and de scribed.

73.079.—MACHINE FOR PRESSING BRICK.—Wm. H. Coombs,

75,079.—MACHINE FOR PRESSING BRICK.— W m. H. COOMDS, Fort Wayne, Ind. 1 claim, 1st, The improved brick-pressing machine, constructed and oper-ating substantisly as berein described. 24, In combination with the mold, in which the bricks are pressed, and a plunger or piston, operated by a crank and pitman, to press the brick in the mold, the movable back piston, P, moved by the means and in the manner substantial y as herein described, to remove the pressed bricks from the mold.

substantial y as herein described, to remove the pressen prices from the mold. 3d, In combination with a plunger or piston, operated by a crank and pit-man to preas the bricks in the mold, the feeder, i, operating in the manner and by the means substantially as herein described, and for the purpo e set forth. 4th, In combination with the mold and a pressing plunger or piston, the elastic backing, 0°, substantially as and for the purposes of oth. 73,080.— MELODEON.— Wm. Cooper, Deposit, N. Y. I claim, ist,Graduating the dip or depression of the keys, by mechanism con-trolled by the receivers, substantially such as herein described, for the pur-ged, The two receivers. A, and the two exhausters, with their opereting pod-

poses gnéotied. 2d, The two receivers, A, and the two exhausters, with their operating ped-als, so combined that the aforesaid receivers may be worked, ether together or separately, at the pleasure of the player, substantially as herein set forth...

Sd. The slide, b, or equivalent device, arranged in such relation with the two receivers that the latter may be either separated or made to communi-cate with each other, substantially as and for the purpose herein set forth. 73,081.—CULTIVATOR AND PLOW.—Wm. H. Damron, Robt.

H. Massey, and Lorenzo F. Whitman, Macound, Ill. We claim ist, The combination of the wheel, a, with the wrist, e, sliding chasse, e', and cross beam is and for the purpose described. 2d, The combination of the sind source cross beam, o, substantially as set cross beam, a', the guide, n, and slotted cross beam, o, substantially as set forth. cross forth

scribed. Sci Also, astraight edge made of two or more thin pieces, having one or b tb edges hardened for the purpose of making it thicker, substantially as described.

described. 4th. Also, a straight edge composed of making it thicker, substantially as described. 4th. Also, a straight edge composed of at h n plate, wi h hardened edge or edges, and a supporting bed or plate, substantially as described. 5th. Also, a straight edge composed of two or more hardened straight edges secured end to end upon a supporting bed plate. 6th Also, a straight edge, when constructed as herein set forth, whether the same be used as a single edge or with two opposing edges, as in a gage, stability as described. 7th, Also, the mode, herein described, of reducing the straight edges to compensate for the stretch in hardening. 8th, Also, the process, herein described, of reducing the graduated edges to the proper standard by tempering. 73,083.—STEAM GENGRATOR.—John H. Duhme, Cincinnati, Ohio.

Ohio 1 Chiom the steam boller, constructed as described, consisting of the sec-1 claim the steam boller, constructed as described, consisting of the sec-1 claim the steam boller, constitution and connected together at the ends by means of the pipes, a, said sections consisting each of the corrugated their rudinal plate, c, and corrugated transverse plate, d, secured together at their points of intersection, all arranged vs described as and for the purpose spe-etter.

73,084.—Boilers for Heating Apparatus.—C. R. Ellis, rookl n, N.Y. I claim a series of pipes for a hot-water heating apparatus, formed with the water way thimbles near the ends of the tubes, in combination with the pipe, g or h, hav ng a rage of thimbles on one side, the whole being connected to-getter, by thereose, as set forth.

getter by the rods, as set forth. 73,085.—WATER-PROOF SAFE.—J. P. Ellis, Flushing, N. Y. I claim a water-proof safe or receptacle for papers and other value ble doc-uments. constructed substantially as herein specified. 73,086.—POTATO PLANTER.—Henry Farmer, Pontiac, Mich. I claim the arrangement and combination of the said fron nagers, hopper, and plow, seting together as and for the purpose above specified. 73,087.—CULTIVATOR.—Wom, Frantz, Piqua, Ohio, I claim the combination of the staddards, D D', and shore I plows, E E', ad-natably attached to ross beams, C C', and the adjustable rake, F, arranged to operate substant ally as set forth. 73,088.—ProtTIME AND CHIDMANY KYCO.

to operate substant ally as set forth. 73,088.—PICTURE AND CURTAIN KNOB.—J. Gardner, New Haven, Conr., essignor to Samuel Peck & Co. I claim, as a new article of manufacture, a picture or curtain knob, or knob for like purposes, made of the material and in the manner substantially as herein specified.

(3,091.—DADE DURANCE LECT Alban, Alban, I claim, ist, In a base burning store or furnace, which has a supply cylinder, an escape passage from the chuic, J, through the horizontal pipe, d', or the holiow ring, e', into the flue, F, substantially as described. 20, Providing the chuic, J, leading through one side of the external casing into the cylinder, E, with a damper or valve, g, substantially as de-earthed.

berg, Saxony, assignor to Edward H. Jackson, Boston, Mass.	stantially as set forth.	sbown,
I claim, 1st, Imparting a forward and rotating movement simultaneously	2d, In combination with such rails, the ties, D, constructed substantially as	11th, The combination of the magazine, E, damper or valve, g, the hor zon-
to the valve rod of a rock drill, by means of the levers, e' e', and their con-	described.	tal pipe of pipes, d', and thehollow r ng, e', substantially as described.
nections, substantially as described.	3d, The ties, D. formed with flanges, arranged substantially as set forth, to	12ta, The arrangement of the flues, d'and e', so that they can be cleaned by
2d, The votat ng .evice consisting of the levers, e' e', operated by means	form locks to hold the tie on the bed-rail, when in proper position to s stain	using a nexible handled brush from inside of the door leading into the coal-
of the guide, b1, on the piston rod, E'. the link, f, guide rod, f', pawl, o,	the temporary track.	supply cylinder or reservoir, substantially as de cribed.
pivoted on the guide rod, f', pawi, o2, pivoted on the guide piece, n, and the	4th, So constructing the rails of a temporary switch that the temporary	13th, In a base burni g air heating furnace having a maganine, E, a door-
guide pieces, m n, and ratchet wheel, H, substantially as described.	track may be carried over the bed-rail, said portable rails being formed sub-	way or passage, provided with a door or window, and opening into the com-
3d, The device for operating the valve rod, consisting of the levers, e' e',	stan ially as set forth. 5th, In combination with the tie, D, the brace, D1 so arranged as to act both	bustion chamber through the outer casing of the fornace, substantially as described.
operated as described, the forked lev r, h, toothed wheels. k k, screw rod, j,	to support the rail laterally and to form a chair to hold the rail down, sub-	
bar, i, and bar, l, provided with shoulders, i, substantially as described. 4th. The device for rotating the piston rod and rock drill, consisting of the	stantially as described.	14th, In a base burning, air heating furnace having a magazine, E, a pass- age, covered by a door or window, and leading into the compusion chamber
levers, e'e', operated as described, lever, g, slotted guide rod, g', pawl, p,		through and acros; the air chamber formed by the exterior case or wall and
pivoted to the guide piece, m, guide picces, m and n, shoulder, d, and the	73,072.—Key Coupling for Musical Instruments.—Jonas	the outer wall of the furnace, substantially in the manner and for the purpo-
piston rod, E', and slotted ratchet wheel, c', substantially as described.	Berger, Knoxville, Ill.	ses described.
5th, The combination of the pieces, I I', with the morticed shoulders, J,	I claim, ist, The construction of a key coupling in which the octave is oper-	73,092.—Apparatus for Distilling and Rectifying.—
cylinder, K, with tongue, s, clamp, L, and ratchet wheel, H, operated sub-	ated without depressing its key, substantially in the manner and for the pur- pose as herein specified.	
stantially as set forth.	2d. The construction of the key board. F. with standards E. and providing	Callr Gresluchna, New Yorkcity.
_6th, The arms, e e, extending from the back plate, G', of the valve chest,		I claim the blow-off pipe, P, in combination with the cups, d1 d2 d3 d7, in the rectifier, G, substantially as and for the purposes described.
G , forming the bearing of the main shaft of the device substantially as de-	pieces f and c, standards, D, valves, C C, and springs, as, all arrang d sub-	79.009 Brown and and a for the period described.
scribed.	stantially in the manner and for the purpose as berein specified.	73,093RECIPROCATING BALL TOYTheo. D. Haehnlen,
73,054.—DEFECATING CANE JUICE.—A. B. Sharp, Paincourt-		Ph ladelphia, Pa.
ville, La.	73,073.—Apparatus for Carbureting Air.—William W.	I claim the combination of the ring, A, the elastic cord, C, the ball, D, and
_ I claim the supplemental or additional revolving cylind rical water cistern,	Berce, Cleveland, Ohio.	handle, B, substantially as specified.
B, when constructed and operating in connection with P atterson's cylinder	I claim the immersed carbureting versel, Z, with its contained float, D, in	73,094.—CULTIVATOR.—W. O. Hargrave, Ripon. Wis.
A, or any other cylinder substantially the same, and specially employed for	combination with the gravitating air holder, M, tang, L, and inverted siphons	I claim, 1st, The board, H, connected to the tongue. C, by the hinge, H, so
purifying the tumes of sulphur to be subsequently used in the defocation of	F1Q R when arranged and employed substantially as and for the purpose	that the drill teeth can be elevated by the dr ver, in the manner as set forth.
cane juice, as set forth.	set forth.	2d, The axle, A, with its blocks D D D, between which are hinged the beams,
73,055.—JOURNALS OF AXLES OR SHAFTS.—Cal in D. Smith,	73,074.—CANE AND UMBRELLA COMBINED.—Geo. Bockstaller,	EEE, provided with their shovels, e e e, when used in connection with the
Baldwinville, Mass.	New York city, assignor to Lewis Schneider and W. W. Mcs ay.	beard, H, bars, d d, securing the horizontal resting bar, G, and operated by the rod, b, upon the heam, E, by the hinge, H', the whole constructed and
I clam the arrangement of the inclined passage, c, and the grooves, a and	I claim the combination of the cover, detachable from the stretchers, and	used in the manner substantially as specified.
b, together and with the journal, as specified.	from the stick and the sheath, F, arranged to take the place of the cover,	
73,056.—MACHINE FOR MASHING AND BOILING WORT FOR	and to give to the umbrelia the appearance of a walking stick, all as set forth.	13,030.— Work For GEARS.—Delilis Harrigan and Joer
FOR BEERJohn Stark and Michael Stark, Buffalo, N. Y.		Whitney, Winchester, Mass.
We claim the combination of a beer maching and boiling apparatus, in the	73,075.—CANT HOOK.—E. Broad, St. Anthony's Falls, Minn.	We claim an endless screw or worm, with its threads so formed as to have their general direction from root to summit such that, if Prolonged, they
manner and for the purpose set forth, or any other principally the same.	I claim the plate, D, with its ears and stops, x x, as shown and described,	would meet at a point distant from the roots of the threads equal to the radii
73.057.—MANUFACTURE OF ILLUMINATING GAS.—Levi Ste-	whereby the hook, C, as constructed, is hinged to the handle, A, and prevent-	of the wheel they are intended to drive.
	ed from falling too far back or forward, substantially as herein specified.	Also, the forming of these threads upon a body whose bounding lines, in a
vens, Washington, D. C. I clam, 1st, The use of a close chamber, for mixing a hydrocarbon and	73.076.—CONSTRUCTION OF LUMBER WAGONS.—S. D. Car-	direction parallel with the axis of the worm, are concave, the rad, us of the
hydro-oxygen, under heat and pressure, which mixture is to be afterwards	penter, Madison, Wis.	coucavity being equal, or nearly so, to the radius of the wheel to be driven.
retorted, to convert it into a fixed gas for lluminating purposes, as de-	I claim, 1st. The rocker block and the coupling block attached to the pole.	73,096.—BEEHIVE.—Chas. Hastings, Dowagiac, Mich.
scribea,	for the purposes and substantially as herein described.	I claim the combination of the box, A, with an air chamber, a; and a series
		· · · · · · · · · · · · · · · · · · ·

Scientific American.

of movable comb frames, B B, with recesses, x, said frames and recesses are covered with paper, C, or equivalent material, as and for the purposes speci-73,097.—BRICK TRUCK.—Napoleon B. Heafer, Blooming-ton, Ill.

ton, 111.
I claim a truck which is adapted for general usefn a brick yard, consisting fa platform, A, with removaoie head and tail boards, A'A', mounted upon oliers, i: C, and provided with a sliding hand tongne, E, and also means for traching thills, F, substantially as described.
3,098.—PORTABLE FENCE.—L. F. Henderson, Freeport, III. Iclaim the uprigues, A, A, ecured with cleats, F, and to bases, B B, in ombination with top rails, D, stakes, C, and lower rails, G, substantially as a for for the purpose set forth.
3,099.—SPIRIT METER FOR DISTILLERS.—J. C. Horton, New York city, and Ame se Milliam, Brockbun N. Y.

8ttaching 73.098.

(73,099.—SPIRIT METER FOR DISTINUEND.—O. LIGENOM, LOW York city, and Jam es Milligan, Brooklyn, N. Y. We claim, 1st, Them ethod of ascertaining the quantity of spirits produced in a distillery in a gi. en time by using a normalization with an antomalic me-ter to measure the spirits passing from the worm, another automa ic meter, to measure the beer passing from the fermenting cisterns to the still, said meters being arranged and provided with automatic registers, substantially as described

meters being arranged and provide and provide and a described. 2d. Also, the method of ascertaining the quantity of spirits produced by a distillery in a given time by passing the beer through an automatic register-ing meter on its way from the f rmenting cisterns to the still, whether in combinetion with a meter to mea ure the distilled spirits or not, substantially as herein described. 73,100.—SHAFT COUPLING.—Geo. W. Hubbard (assignor to

(73,100.—SHAFT COUPLING.—Geo. W. HUDDArd (assignor to Creason & Smith), Philadelphia, Pa. I claim the combination of a clamp or griping coupling, A, constructed substantially as described, and provisional safety key, D, with the shatts, B and B', as and for the purpose set torth. 73,101.—PUSHING JACK FOR RAILROAD CAR.—Ezra Hutson, Purchast M.

 Brockport, N Y.
 Brockport, N Y.
 I claim the hinged law, g, in combination with hinged lever, C, and hand ever, A, ubstantially in the manner specified.
 73,102, — DEVICE FOR SHARPENING HORSESHOE CALKS.— Wm. M. Jones, Horicon, Wis.
 I claim the within described V-shaped file, constructed and used substan-iclaim the within described V-shaped file, constructed and used substan-73.102

I claim the within-described V-shaped file, constructed and used substan-tially as and for the purpose specified. 73,103.— WASHING MACHINE.—Joel Lee, Galesburg, Ill. I claim, in combination with the box, with wheel, B, and crank, shart for operating the vitiman rack bar, and pinlon. E, the arrangement of the self-adjusting pins, G 6, directly over the pedestal, I, constructed as described, and placed over ther bottom of the box, as specified. 73,104.—BREAD BOARD.—Wm. H. Lewis, New York city. I claim the cutting board for bread, etc., formed with a recess or case for receiving the kinfe, as set forth. 73,105.—FILTER.—Joseph N. Lighthall, Joliet, Ill. I claim afilter consisting of a vessel, A, provided it ha central inlet pipe, G, a removable cover, B, perforated partitions, F G, and an outlet pipe, G, "substantially as described.

Cleveland, Ohio. Cleveland, Ohio. I cl in, ist, The guard plate, A, loops, B B, and pins. C, when combined and rranged in relation to the pantaloons, substantially as and for the purpose learned.

described.¹¹ United to the particular, substantiarly as and 104 set particular, 24, The button, D, and guard, A, arranged as described, in relation to the boot and pantaloons, substantially as and for the purpose set forth. 73,107.—BROOM.—H. Lumbard (assignor to himself, G. E. Gerts, and John Somidt), Chicago, III. I claim the arrangement of the reeds on the wedges, B B, and the manner offsecuring them to the block, A, by means of sa d wedges, substantially as and in the manner berein set forth. In commission with the above, the rivets, C C, and plates, D D, arranged as described and specified.

73,108 - CURTAIN FIXTURE. T. J. Marinus, Independence,

73,108 — CURTAIN FIXTURE. — T. J. Marinus, Independence, Iowa.
Iciaim, 1st, The automatic clamp, G, when constructed substantially as and for the purpose sepecified.
2d, The combination of the automatic clamp, G, wire, H, and cord, E, all arranged and operating in the manner and for the purpose set forth.
73,109. — FIBROUS MATERIAL FOR THE MANUFACTURE OF ROFES, CORDS, AND FOR COVERING WIRES, CORDS, T. AMATTIR, ROTUR, SCHUR, SAGEN, AND FOR COVERING WIRES, CORDS, CONS, AND FOR COVERING WIRES, CORDS, AND FOR COVERING, NEW YORK CITY, 1 Claim, 1st, The receiver, n, and pusher, 11, in combination with the blank Carrier, st, the holder passing through the Carrier, as and for the purposes set forth.
2d, The arrangement of devices as described for operating the pusher, 11, the combination with the substantion with the substantis t

2d, The ring-blank carrier, i. in combination with the ring tool notice, i.e., and cutters, r, the holder passing through the carrier, as and for the purposes set forth.
3d, The arrangement of devices as described for operating the pusher, 11, as and for the purposes set for h.
in, The removable chucks, constructed and applied asset forth, in combination with the ring-blank carrier, i, as and for the purposes specified.
6th, the delivery slide, w, actuated asspecified, in combination with the ring-blank carrier, i, as end for the purposes specified.
6th, A machine for cutting screws, in which the tools and their supporting ring are moved continuously by gesting that is connected with the screw driver by a changeable gearing all arranged abstantially as set forths.
7th, The came, k and 6, or projections applied to the screw driver, the parts being arranged and operating substantially as set forth.
73, 111.—GOVERNOR.—T. B. McConaughey, Newark, Del.
1 claim, list, Thehinged arm, D. in combation with how, e, and tripping ever, E, when constructed and operating substantially as set forth.
73, 112.—GRAIN MEASURE.—E. O. Melvin, Brooklyn, Wis.
1 claim the combination of the biurcated chube, a as ", with the gate, B, lever, L, rod, S and the registering sparstrus above described, substantially as a set forth.
73, 113.—RAILWAY-SWITCH ALARM.—I. Ferguson Morsell, Stamford, Conn.

(b) 110.—ItaliuwAr Surfice Stamford, Conn. I claim the combination with theswitch bar and lever, capstan or other device for operating the same of a clock movement provided with an alarm gong attachment, substantially as and for the purposes herein specified. 73, 114.—REEDS FOH OBGANS, ETC.— William Munroe, Cam-buston Mass

bridge, I claim ndge, Mass. sim, as an improved manufacture, musical reeds in which the tongne ured in place between two projections, in the manner substantially as

B secured in place between two projections, in the described. Also the combination with the tongue secured in place substantially as described of a sepression in the middle or elevation at the ends of the bed to which it is secured, substantially as and for the purpose set forth. 73,115.—MACHINE FOR MAKING PASTE.—G. G. Noah, BOS-

73,115.—MACHINE FOR MAKING FASIE.—G. G. HORM, 2010, Mass.
I claim, ist, introducing steam into the perforated arms and into the contents of the tub, for the purpose above described and in the manner substantially as set forth, or by any equivalent means.
2d, The combination of arms attached to the shaft wholly perforated or party perforated and party not perforted, for the purpose above described and in the manner substantially as set forth.
73 116.—SHINGLE MACHINE.—D. L. Peacock, Rockport, Ind. I claim, 1st, A cutter frame composed of two "sarallel plates, m", the upper one bolding a knife, N, and the lower one having a raised heat, m", and the combinition of a cutter frame having tapering arms, t, which the movable planer, G, bearing in hinged arms, H R, substantially as and for the purpose apecified.

73,117.—FRICTION ROLLER.—C. W. Pierce, Albany. N. Y. I claim the collars, A A, made in two parts and provided with slote of I claim the collars, A. A. made in two parts and provided with a blos or openings in which the rollers, D. D. are held, as and for the purpose set forth 73,118.—SKATE SHARPENER.—B. F. Prettyman, Alexandria,

 $V_{\rm Va}$. I claim. 1st, The adjustable guides, B B in combination with the adjustable file or cutting tool, F, substantially as described and for the purpose set

73,125.—CHURN.—Conrad Schifferly, Bourbon, Ind. claim, in combination with the dasher, for the purpose described.

and for t 73,126.--DIVIDER AND CALIPER.-E. S. Scripture, Brooklyn, N.Y. I claim, ist, The wedge shaped circular rib, R, and groove, R', secured by set serew, s, or an equivalent bereof, for the purpose an baantially as de-

a set screw, s, or an equivalent the reof, for the purpose an beam tially as de-scribed. 2d. Also adjusting the leg, B", of the caliper by means of a set screw, c, in the manner as above set forth and shown in the drawings at Fig. 1. 3d, Also a miversal divider with braces, 12 84, and having the inner sur-faces or disks of the head, A, corrugated or ribbed and grooved, as shown at Figs.3 and 4, for the purpose as above set forth. 73,127.-ULOCK CALENDAR.-J. K. Seem, Canton, Pa. I claim the construction and arrangement of the wheels, B C D, and the plate, d, substantially as described for the purposes set forth. 73,128.-SwinG, -B, F, Shaffer, Dayton, Ohio. I claim, in combination with the seat, g, g, ot a swing, the hinged pedal at-teached to the swing frame, h h, and then fastened on the pedal and carried over pulleys on the swing frame, h h, and then fastened in front of the point of and arranged substantially as set forth. 73,129.-GATE.-Franklin R. Sherman, Dowagiac, Mich. I claim the frame, g, used in combination with the gate, the wheels, G and H, and the post, C, substantially as and for the purpose set forth. 73,30.-GARE.-Shankin R. Sherman, Dowagiac, Mich. I claim argene weasel consisting of the swing shore, G and H, and the post, C, substantially as and for the purpose set forth.

73,130. —GARBAGE CAN OR VESSEL. — William Shires, Cincinnat, Ohlo.
Iclaim a garbage vessel consisting of the sheet-metal body, A, wooden staves, B, and base, C, for the purpose set forth-73,131. —MACHINE FOR BRAIDING WHIP LASHES. —Phineas L. Slayton (assignor to himself and Almet Reed), New York city.
Iclaim, ist, The circular disks, F, with biots, h, gearing into each other to carry the braiding fingers, herein described, constructed, arranged and operating a set forth.
2d, The braiding fingers herein described traveling in guide ways, a, with their ends pointing inward and approaching nearto the center of the hollow sphere herein described, all constructed, arranged and operating substantially as described.
2d, The oscillating guide blocks, s, the the curved plates, n', and thepin, o, in combination with the plates, 11', constructed, arranged and operating substantially as described.

73,132.—WAGON PROTECTOR.—G. R. K. Smith, Brooklyn,

N. Y. I claim the construction, application and arrangement of a protecting guard, substantially as and for the purposes described. 73,133.—SAFETY PADLOCK FOR RAILROAD CARS.—George W.

73,133.—SAFETY FADLOUR FOR LINEARANCE. Sevens, Albany, N. Y. I claim the lock composed of the shell, A, yoke, B, and springs or spring catches, C, combined and operating in such manner that the lock may be de-tached only by severing the yoke, substantially as herein set forth, 73,134.—BARREL CHURN.—S. H. Swazey, Morristown, Vt. I claim, ist, A float frame made to fill or nearly fill the diameter of the barrel or churn when provided with floats extending to or nearly to the cen-tral float arbor and operating in connection with said float arbor, substan-tially as described. 1 claim, let, at the provided with noats outcome of the float arbor, substantially as described. 2d, The central floatarbor provided with floats alternating with those on the float frame so strated that it may be made to rotate with the float frame or held stationary when desired, substantially as and for the purposes

frame or held stationary when desired, substantially as and for the purposes described. 3d, The means for adjusting or setting the float frame and float arbor, whereby the floats may be set or held in the same plane with or at right angles to each other, for the purposes and substantially as described. 4th, The adjustable shaft, b, provised with the squared end and with the frame, substantially as cescribed. 5th, the grooved perforated pivot, bl, provided with the squared end aft-ting in the float arbor, whereby said arbor may be held stationary for work-ing the butter, substantially as desoribed. 73,135.—MEDICAL COMPOUND.—D. W. Taylor, Bell county, Tex as

Tex as. I claim the preparation or medicine herein described for the purpose set

forth. 73,136.—PADLOCK.—M. P. Thatcher, Pontiac, Mich. 1 claim the arrangement of the plates, A and B, with their shafts and cylin-ders as constructed and used in combination with the wheels, F F, as and for the purpose specified. 78,137.—MACHINE FOR TREATING ORES OF GOLD AND SILVER

(3) 137.---XACHINE FOR I REATING ORES OF GOLD AND SILVER write VAFOR oF MERCUEY.---William A. Thompson, New York city. I claim, 1st, The cylinder, A, when suspended upon hollow trunnions, H, one of which is connected with a retori for vaporizing mercury and the other with a steam generator and so suspinded that one and may be turned down to allow the contents to be drawn off, substantially as set forth. 2d, The cylinder, A, suspended upon hollow trunnions, and constructed with oppelfowindows, G, and oppenings, DE and F, and used in combination with the stirrer, B, substantially as sai for the purpose set forth. 70 400.

with the stirrer, B, substantially as and for the purpose set forth. 72,138.—APPARATUS FOR PREPARING PAPER STOCK.—Joel Tiffany, Albany, N. Y. I claim, ist, The use of a strong, close vessel for hesting the entire liquor to be used in the reducing vessel to its maximum heat before introducing the same into the reducing vessel in combination with the reducing vessel, substantially in the manner and for the purpose above described. "2d, The use of a former vessel B, in combination with a reducing vessel, G, to be used with their several connecting pipes, substantially in the manner and for the purpose above described. "31,39.--WATER-PROOF FABRIC FOR THE MANUFACTURE OF TRAVELING RAG, TRUNCE CARBIAGE TOPS, AND OTHER ABTICLES."

and for the purpose above described. 73,1:39.--WATER-I'ROOF FABRIC FOR THE MANUFACTURE OF TRAVELING BAGS, IRUNE, CARELGE TOPS, AND OTHER ARTICLES,-william H. Towers, Boston, Mass. I claim, jst, The improved fabric, made substantially as herein described. 2d, The combination of one or more thicknesses of paper with a wover fabric and fnishing the same with enamel, substantially as herein described. 3d, The manufacture of traveling bags, frunks, valises, table covers, car-riage tops, and smiller articles, by combining enamelied paper with often tertile rabric, substantially as described. 3d, The application of glums, resus, parafine, collodion, drying oils, and the like with a fabric composed of paper and cloth, substantially as described. 73,140.-CAR COUPLING.-Jacob N. Vanuegrift, Stephen T. Vandegrift, Smith D. French and Elias S. Stone, Wabash, Ind. We claim, ist, The method and means described for self-coupling cars of a raitacament, E, which it is as the coupling bolt rises and falls, and which attachment E, which it is as the coupling bolt rises and falls, and detaching raitroad crass at will whether the cars are in motion or at rest, viz., by the maso of a cesar at which compiled bolt rises and falls, and which attachment E, which it is as the coupling bolt rises and falls, and which attachment E, which it is as above described of aper and cloth, substantially so (carling raitroad cass at will whether the cars are in motion or at rest, viz., by the assove described on the bumpers of ach car and so that when the torked is raitroad cass at will whether the cars are in so that when the torked is a meethod and means above described of depressed so that the coupling bolt may be raised and depressed at will. 3d, The method and means above described for uncoupling and detaching raitroad cass when run off the track, viz. by using corresponding couplers asabove described on the bumper of one car rests on top of the spring. of the forked lever, F, of the bumper of one car cests on top

73,141.—SHOEMAKER'S HAMMER.—Jacob Vigeant, Marlboro,

Mass. I claim constructing the hammer with the inclined striking face set at an ancie with the handle, substantially as shown and described. Also combining with the handle huwing uniform opposite sides the two in-clined faces arranged with respect to each other and to the handle, substan-tially as shown and described.

73,142.—ATTACHMENT FOR HOPPER OF GRINDING MILL.

wind the plate, in instant and the substantially as herein shown and de-seribed. 3d, The reciprocating thread carrier, R, when arranged as described, in combination with the arms, et., needles, I and J, and chikors, W, alimade and operating substantially as herein shown and described. 4th, The devices herein ahown and described, for communicating motion from the needle carrier. G, to the bar, P, holding the thread carrier, said de-vices consisting of the spring plates, at bl. cams, cl. and stationary cams, dl. ali made and operating substantiatiy as herein shown and described. 5th. The devices herein shown and described for adjusting the stroke of the sinkers, W, consisting of the grooved plate, V, vertical alides, g, eccentric stantial, yas herein shown and described the and operating sub-stantially as herein shown and described. 6th. The combination of the periorated disk, d. ad natable connecting rod g, and the segment, D, as and for the purpose set forth. 73,165.—WHIP.—J. S. Cook, West Groton, Mass. I cla m a whip having its lash secured or hung to its stick, through a swivel ring or eye, substantially as had for the purpose described. 73,166.—CORN PLOW.—S. H. Cox and William H. Pence, Matton, Ill. (3) 142.—ATTACHMENT FOR HOPPER OF GRINDING MILL.— David C. Walters, Warsaw, Ind. I claim, ist, A bell so operated and arranged within the hopper that when surrounded by the grain it will be held stationary but when uncovered will be caused to ring, substantially as and for the purpose specified. 2d, The loaded lever, D, and connecting rod, d, so combined with the float, s, in the bottom of the hopper that the said lever may operate when the float is released from the weight of grain in the hopper, substantially as and for the purpose specified. 3d, The bell, F, wire, f, and adjustable annular block, E, in combination with the standard, C, rod, g, and bar, G, substantially as and for the purpose specified.

and permit the passage of the products of combustion from the furnace through the said coals, substantially as and for the purposes described. Also, in comb mation with the incandescent cham bers, hot-air flues, into which the vapors of zinc may pass from said chambers, to mingle with and be carried off by a hot blast, substantially as described for the purposes set forth. Also, the arrangement of the blast tubes g, immediately over the furnace and communicating with the chambers, E E, as and for the purposes de scribed.

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scribed. 73,143.—HAMES-TUG BUCKLE.—Ludwig Wetzell. Washing-

(76) 140.— HARLEST OF DOCUMENT CONFIGURATION OF THE ADDRESS OF

73,149.— WATER WHEEL.—Courtland B. Wilson and Abner S. Ragetton Transformed Science (State 1997).

S. Houghton, Trenton, N.J. We claim the combination of the top plate. EF, and the rim, GH, with the movable self-adjustable buckets, L L, stays, K K, the groovs or channel, O O, and stops or abutments, P P, all substantially as above described, and for the purpose set fornh.

73,151.— CHEESE BOX AND BUTTER TUB.—Frank H. Wilson, Wethersfield, N. Y.

Wethersfield, N. Y. I claim the arrangement of the box or tub, A. with its cover, B, box, A having a flat methi shoulder, d, on each side, nearlist top, and cover, B, hav ing similar metal shoulders, e, on its inner flange, as and for the purposes see forth.

10g similar metalshoulders, e, on its inner fiange, as and for the purposes set forth.
73,152.—VISE.—Linus Yale, Jr., Cooperstown, N. Y.
I claim, lat, A screw capable of operating the moving jaw of a vise. in combination with a nut having an inclined plane thereon, and an inclined plane attached to the moving jaw, these parts being and operating in combination with a screw capable to the stationary jaw of a vise, and an inclined plane attached to the moving jaw, these parts being and operating in combination with a rack attached to the stationary jaw of a vise, and an inclined plane, the combination being substantially as described.
2d, In combination with the jaws of a vise, a screw, a rack at nucled and nucled plane, the combination being substantially as described, and operating substantially as charded, and operating substantially as combination with the jaws of a vise, a screw, a rack, and a racked nut, a spring, located as described, and operating in combination with the parts with which it is combined, substantially as described the parties with which it is combined, substantially as described the parts.

fied.
Lastly, a sectional collar, in combination with a moving vise jaw, and the screw which operates it by means of recessestherein, the combination being and operating substantially as hereinbefore set (orth.
73,153.—PUMP.—Frederick Yeiser, Danville, Ky.
d claim the rof er shafts, D D, provided with a tating cross-pins, and used with the stock, A, substantially as and for the purpose set forth.
73,154.—TIME ALARM.—Louis Baum, Washington, D. C.
Lelaim an alarm arranged to be onerated by an ordinary watch, through

 10,103.— I has ALARM.—Lobins Baum, Washington, D. C.
 I claim an alarm, arranged to be operated by an ordinary watch, through the medium of the weight, T, cord, I, and revolving shaft, F, arranged to operate substantially as described.
 73,155.—CAR SEAT LOCK.—G. W. R. Bayley and John Mc-Cluskey, Algiers, La. We claim, 1st, The bar, A, and pins, a, disposed on the said bar, a, substantially as above described, in combination with the lips, E, or the frequivalent, the the maner and for the purpose substantially as above set forth and described. 2d, The said bar, A, in combination with the half cap, F, and padlock, G, in the manner and for the purposes above set forth and described

73,156.—BECKWHEAT HULLING MACHINE.—Joseph Baysore,

73,136.—BUCKWHEAT HULLING MACHINE.—Joseph Baysore, Freeport, III. Iclaim, lat, The arrangement of the tightening bar, N, spindle step, c, knockers, d, for operating the trash screen, spindle, a, bail, g, fan blower, E, and curved spout, G, asherein shown and described. 73,157.—STRAW CUTTER.—A. J. Bell, Bloomingburg, N. Y. Iclaim the toothed cutter blade, C, in combination with the frame, G. guides, F, and box, B, all constructed, arrangec, and operating substantially as described.

73,158.—ATTACHMENT FOR PLOW.—Wm. Bennett, Rushville,

Ind. Ind. I claim, 1st, The vertically-adjustable fender, H. attached to the bar, E. Bidding in the guide, F. when such bar is attached to the spring, J. whose for-ward end is secured to the beam, A. In such a manner that the fender shall yield to a clod of earth, and be thirown into the proper position by the spring, J. after passing such clod, asherein shown and described, for the purpose successful and the successful and th

procided. 2d, The spring, J, whensecured to the sliding bar, E, bearing the pendent arm, G, and iender, H, for the purpose of allowing a yielding movement to the fender when brought in contact with clods of earth, as herein shown and

73.159.—Automatic Water Gate.—H. Besse, Delaware, O.

(75, 159.—A UTOMATIC WATER GATE.—I. DESSE, Dela Ware, O. I. claim, 18t. A water gate, A. pivoted at or near its lower marrin, and provided with a projecting float, B. all substantially as shown and described, and operating as and for the purpose set forth. 2d, The latch, e, or other equivalent device, operated by a float, m, or other equivalent device, operated by a float, m, or other equivalent device, operated by a float, m, or other solution with the water rate, A, all as and for the purpose set forth. 73,160.—SLUICE BLANKET.—A braham Block, San Francis-

I c aim a sluice blanket provided with woven ribs, substantially as here n escribed. 73,161.-WATCH.-George A. Bowen, Trenton, assignor to himself and Samuel C. Parrott, Bordentown, N. J. I claim the ring, ., formed within the drum, A, and fastened to the main spring, B, when combined with the catch, E, and shoulder, a, substantially as and for the purposes herein shown and described. 73,162.—Hollow AUGER.—Albert Brush, East Constable, N.Y. I claim, ist, The hollow auger, D, provided with the knives, e e', for form-ing upon spokes the tenons, b, and shoulder, s, adapted to fit into the recess in the felleys formed by the auger, C, having the extended cutting lips, c, and the adjustable guide, d, constructed to operate as herein shown and de-scribed

2d, The auger, C, when provided with the projecting cutting lip, c, and ad-istable gage, d, constructed and operating as herein de cribed, for the purinstable gage, d. constructed and operating as herein de cribed, for the pur-pose specified. 78,168.—PROCESS OF MIXING IRON AND STEEL.—James

Cartwright, Youngstown, Ohio. I claim the process of mixing and combining steel and iron, substantially as herein described.

73,164.—KNITTING MACHINE.—J. Chantrell, Bristol, Conn. I claim, 1st, Themanner, herein shown and described, of connecting the arms of the sinkers, m, by means of annular plates, r', and rivets, as set

almost sto singular in , or a second state of the sliding rack, F, and 2d, The needle carrier, G, when connected with the sliding rack, F, and with the plate, H, in such a manner that a combined longitudinal and transverse sliding motion is imparted to it, substantially as herein shown and de-

co. Cal

I claim. 1st, The adjustable guides, B B, in combination with the adjustable	Taking the A boll so operated and amonged within the hopper that man	ring or eye, substantiany as and for the purpose described.
file or cutting tool, F, substantially as described and for the purpose set	I claim, 1st, A bell so operated and arranged within the hopper that when	73,166,—CORN PLOW.—S. H. Cox and William H. Pence.
	surrounded by the grain it will be held stationary but when uncovered will	Matton, Ill.
forth,	be caused to ring, substantially as and for the purpose specified.	We claim, 1st, Connecting the forward ends of the plow-beams, H, to the
2d, Thecombination of the file or cutting tool, E, and key, F, when the	2d, The loaded lever, D, and connecting rod, d, so combined with the	frame, C, by means of the clevis, I, constructed as described, and the long
same are constructed and arranged substantially as described.	float, B, in the bottom of the hopper that the said lever may operate when	Biginstable bolt, J, substantially asherein shown and described, and for the
73,119.—SEWING MACHINE.—George Rehfuss, Philadeiphia,	the float is released from the weight of grain in the hopper, substantially as	purpose set forth.
	and for the purpose specified.	2d, The combination of the lever, O, and toothed pawl, P, with the shaft
Pa., assignor to the American Buttonhole, Cording, Braiding and Em-	3d, The bell, F, wire, f, and adjustable annular block, E, in combination	N, grooved segments, M, chains, L, and beams, H, in connection with the
broidering Machine Company, New Yerk city.	with the standard, C, rod, g, and bar, G, substantially asand for the purpose	A, groot L and long belts, it, channes, L, and beams, H, in connection with the
I claim the combination of the upper and lower eye-pointed needles when	specified-	clevises, I and long bolts, J, for raising the plows vertically from the ground, substantially as herein shown and described.
the movements herein described are imparted to the two needles so that by	73.143.—SULKY PLOW.—Joseph Warwick, Springboro, Ohio.	
their joint action they may produce with two threads the stitch herein de-	I claim. 1st, The device for lowering and raising the plow beam consisting	3d, The combination and arrangement of the plows, V, having cutters, v', attached to them, and turning the dirt from the hills, plows, W, running at a
scribed in the body or on the edge of a fabric.		lower lavel then the blows if and the treatment the dist to mand the bills at a
73,120.—HINGE.—Reuben Reiber, Lebanon, Pa.		lower level than the plows, V, and turning the dirt toward the hills, stand- ards, R and T, and beams, H, with each other, substantially as herein shown
I claim, 1st, The pivoted plate, c, with screw hole to fasten it to the shutter	rack, H, subetantially as described.	and described, and for the purpose set forth.
or other object in combination with the leaves, A A', and pins, a a, all con-	2d. The screw shank, s, of the sheath, k, and nut, t, in combination with	
structed and arranged and operating substantially in the manner and for the	the standard. P. attached to the land side, L, by means of the bolt, p. for the	73,167.—FLOUR BOLT.—William Craig, Uniontown, Pa.
purpose described.	purpuse of lower ng the plaw point, substantially as described.	I claim the polt, constructed as described, having the partition, v2, between
2d. The right and left-hand binge leaves, A A' b b', fastened together by a	3d. The mold board. I J, with its part, J, bent around the sheath and se.	the outer and inner bolding cloths, v v1, operating substantially as described,
pin, a, which has a head, a', and to which head a plate, c, is pivoted, all sub-	cured to the same, substantially as and for the purpose described.	for the purpose specified.
tantially in the manner and for the purpose described.	4th, The share, M, with its bent part, N, connected to the land side, L, and	73,168.—Low WATER ALARMS FOR BOILERS.—F. S. Daven-
	with the latter forming the point. Attached and constructed substantially as	port, Jerseyville, Ill.
73.121.—TICKET HOLDER.—N. J. Richardson, Lowell, Mass.	described.	I align 1st the construction and arrangement of the hollow tube Q and
I claim, 1st. As a new article of manufacture, a ticket holder formed of a	5th. A plow with separate mold boards and ahare both attached to the	I claim, 1st, The construction and arrangement of the hollow tube, C, pro-
single wire, in the manner described.		vided at its upper end with the screw plug, D, having valve seat, g, the hol- low (ube, E, fitting into tube, C and having the opening, j, communicating
2d, The holding spring or clamp, E, arranged and operating as described.	stantially as described.	with the interior of the float and maying the opening, it communicating
		with the interior of the float, and provided at its upper end with the pointed valve, h, all operating as described, for the purpose specified.
73,122.—GLASS LAMP.—D. C. Ripley (assignor to Ripley &	73.144.—FLOCK DUSTER.—Miles Waterhouse, Passaic, N. J.	2d. In combination with the outer and inner tubes. Cand E. when arranged
Co.), Pittsburg, Pa.	I claim the rotating brush cylinder, d, with its spirally arranged brushes	as described, the valve seat, g, the valve, h, and the orifice. i. substantially as
I claim a lamp which is constructed with a pressed base, A, and one or	and beaters, d' d' d', when combined together and with the screen, e, and	and for the purposes set for the
two handles, R, and a globe, C, blown thereupon, substantially as described.	the openings, c and i, in the manner and for the purposes shown and de-	
	scribed.	73,169.—BROOM OR BRUSH HOLDER.—Anthony G. Davis (as-
73,123.—MACHINE FOR HANDLING OR PILING BRICK.—James	73,145.—LAMP.—Hiram B. Wellman, Allegheny City, Pa.	_ signor to himself and Augustus N. Woolson), Watertown, Conn.
Sangster, Buffalo, N. Y.	10,140. Damin . In all and the children in the court of the children in the court of the children in the child	I claim the patent broom brush holder, constructed as described, consist-
I claim, lat, The partitions, B, when made movable by means of the handles,	I claim the pipe, C, for oil, and the pipe, E, for water, having chamber, D,	ing of the cnrved spring arms, A, made in one piece, and secured in position
C, and pins, b, substantially as and for the purposes herein described.	between them, when arranged in combination with the lamp, A, and used	under the bar, B, and slotted to receive the sliding bar, C, as berein described
2d. Also, in combination with the above, the springs, G, so arranged as to	for the purposes set forth.	for the purpose specified.
force said partitions, B, apart, substadtially in the manner and for the pur-	73.146.—PROCESS OF MANUFACTURING WHITE OXIDE OF	73,170TIRE SHRINKEREdward B. Decker, Bedford, 11.
pose herein described.		10 TIRA BARIARA Du walu D. Deckel, Deulolu, El.
73,124.—APPARATUS FOR GENERATING GAS.—D. F. Scheaf,	ZINO.—Samuel Wetherill, Philadelphia, Pa. I claim passing the products of combustion from the furnace into an aux-	I claim the combination of the operating lever or handle, D, pivoted straps,
		C and E, pivoted levers or bars, A and B, having clamps with stationary
Dayton, Ohlo.	That y chamber of chambers containing incance on the basis of the incenter,	jaws, FG, and pivoted eccentric jaws, HI, attached to them, with each
I claim, 1st, The arrangement of the tank, A, pipe, C, and stove, B, in such	through the incandescent coals, into contact with a hot blast, substantially as and for the purposes described.	other, substantially as herein shown and described, and for the purpose set
a manner that the made gas is passed back through the oil tank. the various	as BEG 10F the purposes described.	torth.
parts being constructed and operating anhatantially as set forth.	73,147.—Apparatus for the Manufacture of White	73.171.—EXTENSION CLOTHES POST.—George Dittenhaver.
2d, The arrangement of the receiver top with chain, N, lever, P, and pipe,	OXIDE OF ZINGSamuel Wetherill, Philadelphia, Pa.	Napoleon. Ohio.
C, provided with a stop cock in such a manner that the flow of oil to the	I claim the combination, with the furnace, of one or more chambers, com-	I claim the combination of the sliding part, B, provided with the spring
generator is regulated by the rise and fall of the receiver top, substantially	municating with said furnace, and adapted to contain incandescent coals,	nawl, b, and having the removable clamp. D. secured to its upper and
as and for the purposes specified.	municame	part, -, -,

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registed by means of the thumb screw, F, all constructed and operating sub-stantially as described for the purpose specified. 73,172.— CULTIVATOR.— Edwin Doublittle, Pawnee, Ill. I claim, Ist, The hinged sides, M, friction wheels, N, and bent bar, E. with each other, and the plow beams, I, and with the beams or bars, D, substan-tially as herein shown and described, and for the purpose set forth. 2d, In combination with the above, the knees or bars, O, coss bar, P, and lever, R, all arranged and operating in the manner and for the purpose set forth.

forth. 3d, The combination of the adjustable connecting and brace bars, W, up-rights, V, and plow-beams, i. when arranged to operate in the manner here-in described and represented.

73,173.—CULTIVATOR.—John W. Doud, Forestville, Iowa.

(10), 10.—UULTIVATOR.—JOHN W. DOUM, FORESVILLE, IOWA. 1 claim, 1st. The combination of the frame, C, strengthening braces, D, and diagonal plow beam, E, to which the standards, F, of the plows, G, are at-tached with each other, the said parts being constructed and arranged sub-stantially as herein shown and described, and for the purpose set forli. 2d, Connecting the axic, B, to the tongue, I, of the Irrane, C, by the inclined bars, J, and jointe a or link connection, k, substantially as herein shown and described.

described, described, and recombination of the cross bar, M, and adjustable chains, L, with the inclined bars, J, and frame, C, substantially as herein shown and described, and for the purpose set forth. 4th, The combination of the lever, N, chain, P, and ball or bar, R, with the frame, C, and axle, B, substantially as herein shown and described, and for

he purpose set forth of the levers, S and T, with the frame, C, axle, B, and in the full of the set forth of the levers, S and T, with the frame, C, axle, B, and in clined har, J, substantially as herein shown and described, and for the purpose inclin set for

pose set form. 73,174.—Door HINGE.—Charles Dupre, Louisville, K.v. I claim the binge plates, a and b, turnished with the arms or ears, F. E' and e, in combination with the pin, C, screw, D, and socket, F, or their respective equivalents, in manner as and for the purposes described. 73,175.—TIRE SHRINKING MACHINE.—James Elliott, Milford

WIS. Iclaim, 1st, The combination of the connecting rod or chain, G, for open ing the carriages, with the carriage, E, and ca.n levers, F, substantially a

ing the carriages, with the carriage, E, and tail iteres, F, successing, and described. 2d, The slot, b, in the bed piece, B, and the groove, a, in the platorm, A, making together a T-shaped proce, in combination with a T-shaped lug upon the carriages, all as substantially specified and described. 73,176.—BUCKLE.—Louis Elsberg, New York city. I claim the buckle constructed as described, consisting of the buckling loop, A, having the flattened center, C, and bent edge, D, its extremities, B, hent at right angles to the center, forming bearings for the loop, B, the latter having the serated tongne, I, fitting between the arms, B, upon the flat sur-face of the loop, A, beneath the edge, D, as here in described tor the purpose specified. specified. 73,177.--HAY KNIFE.-Charles A. Fisher, Geneseo, Ill.

I claim. as a new article of manufacture, the hay knife, when formed from a piece of metal. as shown and described, and provided with the handles, F G, as herein set forth. 73,178.—SEWING MACHINE.—David Forrest, Eastport, Me.

(3) 1/8.—DEWING MACHINE.—Davie rorrest, Eastport, me. I claim the best hand lever, D, in combination with the side rode, ek, monsted on the base, b, and connected with the needle, a, and the looper, d, asset forth. the whole constructed and operating as herein described. 73,179.—HORSE HAY FORK.—C. E. Gladding, Troy, Pa. I claim, 1st, In combination with a power hay fork, the connection, d, or its equivalent, formed of the parts, E F and G, or their equivalents, substantially as and for the purposes herein shows and described. 2d, In combination with the connection, D, or its equivalent, the bail, C, substantially as described.

substantially as described. 73.180.—STRAW CUTTER.—J. F. Hammond, North Sudbury,

73,180.—STRAW CUTTER.—J. F. Hallmond, North Suddury, Mass. I claim.1st, The combination and arrangement of the bevelled knives.L M N, with each other and with the sliding frame, D, and feed box, C, substan-tially as herein shown and described, and for the purpose set forth. 24, the combinations of the slotted lever arms, RT, sliding frames, O, and sliding rake heads, S, one set or both, with each other, with the feed box, C, frame, B, and knife frame, D, substantially as herein shown and described, and for the purpose set forth. 73,181.—CULTIVATOR.—C. A. Harper, Wheeling. Ind. I claim, ist, The combination of the wheel, D', with the cultivator frame, A. substantially as herein shown and described, and for the purpose set forth.

forth

A. substantially as herein shown and described, and for the purpose set forth. 24. The combination of the spirsl or screw plate, H, with the wheel, D', and with the cultivator frame, A B, substantially as shown and described, and for the purpose set forth. 73, 182. — BURGLAR ALARM LOCK.—Samuel T. Heminway, Saratoga Springs, N. Y. I claim the combination and arrangement of the pivoted lever, B, having its outer arm projecting through the aperture, T, on the top of the lock, the notched arm. A, secured to the verge, the spring, C, and arm, R, substantial-ly as described, for the purpose specified. 73, 183.—CAR AXLE, BOX.— Geo. H. Henfield, San Francisco, Cal.

Cal. I claim the combination of the grooved caps, e e, the linings, a a, provided with plus, c c, and the shells, A A, arranged as and for the purpose herein de-

scribed. 73,184—Straw Cutter and Corn Sheller Combined.

(3)164 — CIARM COTTER THE SOURCE STREAM CONTRICT TO THE SOURCE STREAM COTTER THE SOURCE STREAM CONTRICT STREAM CONTRIBUTION STREAM CONTRIBUTION STREAM CONTRIBUTION STREAM CONTRACT STREAM CON

cniter Knives, P. and sheller teem, S. wild the vertice Knives, P. and sheller controller outer and corn sheller, substantially as described, and for the purposes set forth.
2d, The combination of the rubber springs, R, with the knives, P, and balance wheet, O, substantially as described, and for the purpose set forth.
73, 185. - BottBIN. --Albion P. Holmes, Great Falls, N. H. I ciaim the spool or bobbin, having its solid wooden body surrounded by the metalbe cylinder between the end disks, the bearings of said spool being composed of wood, as herein described, for the purpose specified.
73,186. - PAD CRIMP PRESS - George Kennedy (assignor to hinself and A. J. Tompkins), Clarksville, lowa.
I claim, ist, The trame or press, A B, adapted to receive the blocks, C D, constructed and operated substantially as herein shown and described and for the purpose set forth.
2d, The removable crimping blocks, C D, or their equivalent, constructed and operated substantially as herein shown and described and for the purpose set forth.
2d, The removable of the shown and described and for the purpose set forth.
2d, The removable of the shown and described and for the purpose set forth.
2d, The removable of the removable crimping blocks C D, or their equivalent, with the 'rame or press, A B, substantially as herein shown and described and for the purpose set forth.

alent, with the 'rame or press, A B, substantially as herein shown and scribed and for the parpose set forth. 73,187.—FRUTT JAR.—J. M. W. Kitchen, New York city. I claim the vent plug when attached to an elastic band, or its equival and arranged for operation substantially as described, for the purpose

forth. 73,188 — Spring BED BOTTOM.—Gottlieb Koenig, Plymouth,

73,185 — SPRING BED BOTTOM.—Grottineo Roenig, Frymourn, Mich.
Claim the bars. C. the springs, D, and the regulating rods, E, constructed, combined, and operating with the platform, B, and the base frame, F, in combination with a bedstead, substantially as described.
73,189.—SNOW PLOW.—Charles Lusted, New York city.
I claim, ist, The hinged oscillating plovesbare, D, when made and operating substantially as and for the purpose herein shown and described.
2d, A snow plow provided with an oscillating share, D, which is hinged to the upper edge of astationary share, C, and which has flanges b, at the ends, substantially as herein shown and described.
3d. The Hinged share, D, ot a snow plow connected by means of a jointed rod or rods g, with a crank or cranks being loose on the axle of the plow truck, as described, the crank or cranks being loose on the axle, and connected with clutches, sp that the share can be made to oscillate or not, as set forth.
73,190.—IAY ELEVATOR.—Harvey McCown and Luther M.

73,190.—HAY ELEVATOR.—Harvey McCown and Luther M. McCown, Enon Valley, Pa. Wr Claim, 1st, The carriage, E. constructed as described, when its bottom consists of the bar, E. hung at one end, e. of the carriage, its free end ex-tending beyond the opposite side of the carriage, and notched at *i*, to fit over the catch, h, upon the pendent, i, said bottom, E, being held in position by means of the coiled spring, F, and released by the pressure of the hook, d, as herein described, for the purpose specified. 2d, The combination of the binged and notched bottom, E, soiled spring F, hook, d, pandant, i, catch, h, rollers, C C, and side bars, a all constructed and arranged as described, for the purpose specified. 73,191.—ENDLESS CHAIN POWER.—William McCrevery, Pitts-burg Pa.

burg, Pa. I claim the arrangement of the shifting clutches, e e, the bevels, a a and b, the pulleys, c c1c2c3 c4, and the endless chain, d d, when applied as and for the pulposes herein described. 73, 192.--UMBINED HORSE RAKE AND HAY SPREADER,— Bedevice & Newing Brockfield. Conn.

shown and desribed, in combination with the ropesor chains, D and D' and the clevis iron, C, or other equivalent device for the purpose of working three horses abreast in plowing or other equivalent operation, all as set three forth

73,198.—ICE SLEIGH.—John Rancevau, Carthage, N. Y. Iclaim, Ist, The wheel, having its bearings in the hinged frame, in com-bination with the elastic strip, I, whereby the wheel is held upon the ice and permitted to conform to its irregularities, as herein setforth, for the purpose

permitted to conform to its irregularities, as herein setforth, forthe purpose specified. 2d, The construction and arrangement of the pivoted brakes, K I, con-necting rods, O, foot levers, E and N, and springs, P, substantially as de-scribes, for the purpose specified. 3d, The combination and arrangement of the spur wheel, D, hung in the hinged frame, given wheels, E F G, elastic st(r), I, brace, J, springs, P, foot levers, M N, connecting rods, O, pivoted brakes, K L, block, U, and thumb nut, V, substantially as described. 73,199.—PLATE-LIFTER.—D. E. Roc, Elmira, N. Y. I claim, ist, The combination of the spring, C, with the claws, A and B, substantially as and for the purpose shown and described. 73,200.—RAILWAY SWITCH.—W. L. Rogers, North Cornwall, and W. E. Crane, New Britain, Conn. We claim, ist, The bent or right angular levers, D D', rods, E F F F, cranks, G G', pinons, a, and rack-bars, I ', all arranged and applied to a switch to operate in the manker substantially as and for the purpose set forth.

2d, The rod³, J L, and tube, K, notched as shown, and provided with the spring, i, and plates, g h, in combination with the rods, M M', shafts, l l', spring, i, and plates, g h, in combination with the rods, M M, shafts, 11', pinions, m, and rack bars, N N', all arranged substantially in the manner as and for the purpose specified. 73,201.—BRICK MACHINE.—James Sangster and David P.

76,201.—BRICK MACHINE.—James Sangster and David P. Dobbins, Buffalo, N. T., and John S. Richards, Erie, Pa. We claim, ist, The combination of the lug or projection, Q, and the movable jointed connection, D2, or its equivalent, when constructed and arranged substantially as and for the purposes herein described and set forth.
2d, Also, the projectang pieces or rims marked, F2, within the moles, in combination with the rims, G', or any equivalent thereto, on the upper perforated piston or pistons, I, substantially as and for the purposes here in described and set torth.
3d, The combination of the mechanism, X X, spring, Y, and cross bar, A' with the vertically moving perforated pistons, substantially as and for the purposes described.

which the vertically moving periodated pictors, substantially as and to the purposes described. 4th, Also, the combination of the vertically moving perforated pistons, I, when the periodations in the lower pistons, G, are made larger than those h the upper pistons, for purposes substantially as herein described. 5th Also, the combination of the upper and lower perforated pistons, with the cams, R, and friction roller, BC, or its equivalent, substantially as and for the purposes herein described and shown. 73,202.—PRESERVE JAR.—F. Joseph Shefferly, Detroit, Mich. I claim scaling a preserve jar by raising the cover in the neck of the jar, instead of lowering it, substantially as described. 72,208. Exvert opt. —F. Marion Shields (assignment to himself

73,203.-ENVELOPE.-F. Marion Shields (assignor to himself and James A. Jarnazin), Macon, Miss. I claim the envelope, constructed as described, consisting of the parts, B C, provided with the wings, G G, and flaps, H H E E2, having their edges gummed, as shown and specified.

-THRESHING MACHINE.—John F. Skinner, Brasher

73;204.— I'HRESHING MACHINE.—gound F. GAMMER, Engoted from Works, N.Y. I claim, 1st, The operating of the shoe, C, through the medium of the lever, G, and the composed of the double spiral thread or flange, c, on the pulley, H, substantially as shown and described. 2d, The sprine, N, pulley, h, and lever, M, arranged in connection with the belt, L, and wheel, O, substantially as and for the purpose specified. 73;205.—BOLT CUTTER.—E. A. Sloat, Theresa, N. Y. I claim the stationary cutter. A, the movable cutter, C, the lever, E, and the places, B, constructed and arranged substantially as herein shown and described, for the purpose set forth. 72;206.—GATE.—Gaine, P. Stebbins, Sparta Centre, Mich. I claim the sliding gate, B, hung or suspended on rollers, a a, in combi-I claim the sliding gate, B, hung or suspended on rollers, a a, in combi-

I claim the sliding gate, B, hung or suss, Sparta Centre, Mich. I claim the sliding gate, B, hung or sussended on rollers, a s. in combi-nation with the weigh, k, the pivoted bar, E, platforms, F F, and the pul-leys, D j Y, all arranged to operate in the manner substantially as set forth.

-UTERINE ELECTRODE A D'ABDOMINAL SUPPORTER. 73.207

73,207.— UTERINE ELECTRODE A D ABDOMINAL SUPPORTER.
-Albert J. Steele, New York citv.
Claim, 1st, wire electrodes, insulated and covered with sponge, substantially as shown and for the purpose specified.
2d. The straps, B, for sustaming the electrode in place, substantially as shown, and for the purpose specified.
3d. Th. form of the electrode having a ring, g' and stems, ft', attached thereto, substantially as shown and for the purpose specified.
3th, The form of electrode having a ring, g' and stems, ft', attached thereto, substantially as shown and for the purpose specified.
5th, The form of electrode having a ring, g' and cross pieces, h, substantially as and for the purpose shown and described.
5th, The form of electrode normanian and described.
3th, The subdominal belt, A, in combination with the showe described electrodes, substantially as and for the purpose shown and described.
7th, 'The abdominal belt, A, in combination with the above described electrodes, as hereinafter described, substantially as shown and for the purpose shown and described.
8th, The conconducting bile, D, in combination with the above described electrodes, as hereinafter described, substantially as shown and tor the purpose specified.
73,208.—TINNERS' FORMING MACHINE.—William Stine, L1-

73,208.—TINNERS' FORMING MACHINE.—William Stine, Ll-

more, Ohi I claim the

more, Ohlo. I claim the faring gage, a in combination with the rollers of a tinman's forming machine, affanged and operating substantially as and for the pur-pose herein described. 73,209.—PLOW.—James Urie, Evansville, Ind. I claim, 1st, The standard, C, constructed as described, having the flange, cl. extending its entire length upon one side, and the horizontal part or land side forming two flanges upon its rear end, gradually decreasing in width toward the forward part, all cast in one piece, as herein described,

width toward the forward part, all cast in one piece, as herein described, for the purpose specified. 2d. The point, A, when cast in one piece as set forth in combination with the standard, C, constructed as described having the itange, cl. extending its entire length upon one side and the horizontal part or land side forming the flanges upon its rear end gradually decreasing in width toward the torward part all cast in one piece, as herein shown and described. 73,210.--SAW.--George Walker, Middletown, N. Y. Iclaim the annular rivet, c, inserted in theside of the saw tooth engaging with the notches, a, upon the cutter, B, whereby the latter is held in the 73,211.--HORSE HAY FORK.--J. H. Walker, Grand Rapids, Mich

Mich. I claim the vertical spring bolt, D', working in projections upon the side of the suspension bar, C, near its upper end and litting into the notch, e, in the underside of the curved irame, B, passing through the mortise in the suspension bar, C, above the spring bolt, D', arranged and operating as de-scribed for the purpose specified. 73,212. --- SCRAPER ATTACHMENT 'TO CARS. --- E. B. Wells,

Northampton, Mass. I claim, let, The adjustable scrapers, D. held down upon the track by means of pressure upon the bar, H, the spring, E, permitting sail scrapers to yield to the inequalities of the track, as herein set forth for the purpose Bounda.

Specified. The inclusion and arrangement of the scrapers, C, attached to the 2d, The Construction and arrangement of the scrapers, C, attached to the end of the inclined springs, E, curved bar, F, stud. a, slotted and jointed rod, G, itssections, C d, pivoted to the cars, b b, the section, c, connected to the operating bar, H, as herein set forthfor the purpose specified. 73,213.—VENTILATOR AND WINDOW SCREEN.—J. R. Wharry,

latter acts upon a reversing apparatus contained in one half of the said receptacle, substantially as ubovit described.
16,627.—MACHINE FOR CUTTING DOVETAILS AND THEIR GROOTER-Harvey Church, Troy, N. Y., assignee of Elbridge G. Matthews, Ckar Water, Minn. Dated Feb. 10, 1857. Application for reissne received and filed Dec. 28, 1867.
I claim the use of knives of a form as hereinbefore described, either stationary or having a reciprocating motion, for cutting dovetails, or male and female grooves "cut under," in place of cutting them with knives having a rotary motion, the knives so described being used either singly or in combination with others for miters, as may be desilable.
I likewise olaim the combination with the fixed stock, Q, of the mitering and dovetailing outersabove described, the traversing of the block or board in a clamped position past the same, or a reverse process, namely, moving the cutters adjusted in the fixed stock past the block or board in ostion as set orth.
O root More HEAD GROOME ACT Coolby, Waterbury, Vt. actions of the set of the set of the moter in the set of the set of the moter in the set of the set of the moter in ostion with the fixed stock and mitering and dovetailing cutters adjusted in the fixed stock past the block or board in a clamped in postion as described.

above set forth and described. 3d, The said shutter, C C', in combination with the slot, g', in screen frame, G, substantially as above set forth and described.

73,214.-MACHINE FOR SAWING LATHS.-Emery T. Wheeler

May 20, 1867. Application for reissuer eccived and filed Dec. 28, 1867. Division A.
 I claim, lst. The combination of a socketed cross head with a binder having the two ends thereot united, the combination being substantially such as described.
 26, 'he combination of a socketed cross head with a binder having the two ends thereot united and a single tastening for holding the whole binder in such rosition as to clamp rags, etc., the combination being substantially as described.
 36, The combination of a socketed cross head with a binder having the two ends thereot united and a single tastening for holding the whole binder in such rosition as to clamp rags, etc., the combination being substantially as described.

73,218.--BED BOTTOM.-S. J. Wingate, Decatur, Ill. Iclaim the combination of the bars or levers, E, elastic straps or bands, L, and cross bars, I, with each other and with the slats, F, and irame of the bedstead, substantially asherein shown and described and for the purpose

[JANUARY 25, 1868.

73,219.—Shingle Machine.—Horace Woodman, Saco, Me. 13,219.—SHINGLE MACHINE.—HOFACE WOOMMAIL, Saco, Mc. Iclaim.ist, The revolving table with its feeding and securing mechanism constructed substantially as described in combination with the rotary planer, V, andsaw, C, as and tor the purpose specified. 2d. The combination and arrangement of the outer prooved cylinders, K, adjustable frame, R, lever, Q, segment rack, k, and spring, g, substantially as described for the purpose specified.

NOTE.-In the above list of patents SIXTY-FIVE were obtained through the office of this paper.-EDS.

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.

71.955.—Suspension Bridge.—Charles Bender, New York Dated Dec. 10, 1867. Application for reissue received and filed D city. 26, 186

city. Dated Dec. 19, 1867. Application for reissue received and filed Dec. 26, 1867.
i claim, ist, The construction and arrangement of one or more yielding joints, connecting the beams or trusses of stiffened suspension bridges, substantially for the purpose berein described.
2d. 1 claim the use of balls, serving as matched to prevent any horizontal deviation of one or more of the adjoining parts of the beams or trusses, substantially for the purposes specified, but not not be kinds or stiffened suspension bridges, substantially as set forth.
3d, 1 claim the attachment of the ends of the cables or chains ator near the first or shore piers to the longitudinal beams or to be trusses allost all if as a static structure and the decomposition of the longitudinal beams or to be trusses allost all received to reduce the side motion, by leaning the longitudinal beams or trusses, substantially for the purposes set forth.
4th, 1 claim the method employed to reduce the side motion, by leaning the longitudinal beams or trusses, substantially for the purposes set forth and described.
5th, I claim one or more rollers, or pieces of rollers, with or without journals, placed on the end piers of stiffened suspension bridges, substantially for the purposes specified.
6th, I claim the means and method by which the beams and trusses of stiffened suspension bridges and substantially for the purposes specified.
6th, I claim the means and method by which the beams and trusses of stiffened suspension bridges are secured vertically to the end or shore piers by use of the weight of the piers of stiffened suspension bridges.
6th, Claim the means and method by which the beams and trusses of stiffened suspension bridges are secured vertically to the end or shore piers by use of the weight of the piers of stiffened suspension bridges.
6th, Claim the means and method by which the beams and trusses of allow thereby for the expansion and contraction of the

forth and described. 70,648. — LAST. — Ambrose Taylor, Osawatomie, Kansas. Dated Nov. 5, 1867. Application for reissuerceived and filed Dec. 27, 1867. I claim, 1st, The spring hook, E, secured by its shank, F, in the block, B, and engaging with the hook, C, set in the last, A. all constructed and arranged to operate as herein set forth for the purpose specified. 2d, I further claim the prevention of lateral or back ward movement of the block, B, by having the hook, C, extend upward above the surface of the upper side of the last, and within a recessin the under surface of the block, B, substantially as shown and described. 505. A Dupper purper new formation of the surface of the block.

upper side of the last, and within a recease in the under surface of the block, B, substantially as shown and described, 595.—APPARATUS FOR VULCANIZING CAOUTCHOUC.—George E, Hayes, Buffalo, N.Y. Dated March 5, 1861. Application for reissue received and filed Dec. 27, 1867. I claim. 1st, A vulcanizing vessel or oven having its opening and closing joint for insertion and removal oi the mold at of near the botcm, by mak-ing it of two main sections, the upper or inclosing one of which forms the body of the vessel, while its lower section constitutes a base thereto, sub-stantially as specified. 2d, So constructing and using a vulcanizing vessel with a flattened bottom as that the plaster mold containing the rubber compound shall be in contact with the inside of the lower part of the vessel, so that the heat from the jamp or other heater shall be applied directly to that part of the vessel upon which the wood lies, substantially as and for the purposes set forth. 3d, A mercury chamber formed in the upper section of the vulcanizing vessel, the open ring. C, in combination with the bottom, A, band, D, and cover. E, substantially as specified. 44, 130.—METALLIC UONCENTRATOR.—Zenas Wheeler, San Francisco, Cal. DatedSept. 6, 1864. Application for reissue received and fled Dec. 37, 1857.

Francisco, Cal. DatedSept.6, 1864. Application for reissue received and filed Dec. 37, 1867.
 I claim, jet, 'The arrangement and combination of the corrugated surface, B, with a tibratory or oscillating pan or concentrator.' 2d, The icclined grooves, K L and K'L', or their equivalent, in combination with a vibratory or oscillating pan or concentrator.' 3d, the opening, D, in combination with a vibratory or oscillating pan or concentrator.' 3d, the opening, D, in combination with a vibratory or oscillating pan or concentrator.' 4th, The bowl, F, and tube, F, or either of them, in combination with a vibratory or oscillating pan or concentrator.' 4th, The bowl, F, and tube, F, or either of them, in combination with a Sid201. - FLUID METER.--Napoleon Aubin, Montreal Canada.' Dated Aug. 19,1862. Application for reissue received and filed Dec. 23, 1867.' I claim the combination of a disphragm or its equivalent with a reversing apparaus and a slide valve, connected each with the other without the use of stuffing boxes, and the whole inclosed within a proper receptace containing a valve seat, and constituting a fluid meter, constructed and operating ubstantially as above described.
 I also claim Constructing fluid meters with a single slide valve of such the astift with a reversing apparatus and as above described.
 I also claim the use in fluid meters of a diaphragm when combined with a short slide valve of the above described.
 I also claim the use in fluid meters of a diaphragm when combined with a short slide valve of the above described.
 I also claim the use in fluid meters of a diaphragm when combined with a short slide valve of the above described.
 I also claim the use in fluid meters of a diaphragm when combined with a short slide valve of the above described.
 I also claim the use in fluid meters of compression springs when combined with a short slide valve of the above described.
 I also claim the us

above described. 1 also claim the use in fluid meters of compression spring when combined with as hortshide valve of the above description, substantially as and for the purple of the above description, substantially as and for the purple of the above description, substantially as and for the purple of the above description, substantially as and for the purple of the above description, substantially as and for the purple of the above description, substantially as and for the purple of the above description, substantially as and for the purple of the above description. The above described, and the other half the other half of the said the ceptacle, substantially as upon the current of the said of the said the described. Maccurrent purple of the above described.

n as described, all for the purpose of naving the mixer and determined erein as set forth. [81.-Mop HEAD.-George I. Colby, Waterbury, Vt., as-signee of Harvey Murch, Lebanon, N. B. Dated June 14, 1853. Extended May 20, 1867. Application for reissuer eceived and filed Dec. 28, 1867. Di-

73,214.—MACHINE FOR SAWING LATHS.—Emery T. Wheeler and William H. Yalghan, Cannelton, Ind. We olaim, ist, The adjustable rests, p i, in which are mounted feed wheels, u'u', in combination with the solding supporting rods, r, and bars, s, all constructed, arranged and operating substantially as and for the purpose herein shown and described.
2d, The carriage, B, on which the vertical saw, b, and horizontal saw, a, are mounted when arranged to be moved on the ways, A A, by means of a rack and pinion and when arranged to perate ar od, 1, througt: the medium of a pln. f, on the same, substantially as and for the purpose described.
3d, the rod, i, provided with j'''s, ff', and double incline, i, when arranged to be operated room carriage, i'', in combination with the paw, z, and gage tatcher wheel, y, constructed, arranged and operating substantially as a for the purposes set torth.
4th, The toothed feed wheel, u, to which motion is given by worm, w, on shaft, g, through the medium of clutch pulley, n2 on same shaft, substantial, sa described.
5th, The combination of the clutch pulley, n2 arm, y, gage ratchet wheel, y, and shaft, g', all constructed and arranged substantial; yas described.
73,215.—WATER WHEEL.—George W. Wheeler and George described. 3d, The combination of a socketed cross head with a handle and a binder having the two ends thereor united, the combination being substantially such as described. 4ch, The combination of a socketed cross head with a handle and a binder Frederick F. Nearing, Brookfield, Conn. I claim the frame, G, fitted loosely on the axle, B, and carrying the revolv-ing rake, H, in combination with the loose pulley, E, and olutch, F, on the axle, B, and the lever bar, J. on the frame, G, with the spurs, g g, on the rake head, all being arranged to operate in the manner substantially as and for the purpose set forth. 4th, The combination of a socketed cross head with a handle and a binder baying the two ends thereof united and secured in clamping position on the handle, so as to sustain or a(d in sustaining the cross head, the combination being substantially such as set forth. 5th, I claim a binder in combination with a hondle when the former can move longitudinally with reterence to the latter, and is secured thereto when desired, the combination being substantially such as described. 9,781.—MOP HEAD.—Geo. I. Colby, Waterbury, Vt., assignee of Harvey Murch, Lebanon, N. H. Dated June 14, 1833. Extended May 20, 1867. Application for reissue received and filed Dec. 28, 1867. Divis-ion B. for the purpose set torth. 73,193.-B.AG FASTENER.-Daniel Overholtzer, Polo, Ill. I claim the bag fastener constructed as describe', consisting of the link, b. having an open hook at one end, between the sides of which the bend of the locking thook, d, is pivoted, in such manner that the link, c, when placed over the locking hook, will clamp the bend of said hook in the hook of the locking thook, d, is shore in shown and described. 73,194.-- WATER METER.-- Walter Payton, Sewardstone Road, Victoria Park, England. I claim the combination of the axles, b. vanes, bl. bl. gear wheels, le bd. worm, d, gear wheel, it worm, 'id. gears, shaft, gl. worm, cd. and gearing the resided, for the united ors, 35, plushbers, e as and al, all arranged as de-scribed. for the rungose of neasuring the passage or thew of inguids, or for herein shown and described. 73,195.--PRINTING PRESS.-C. Potter, Jr., Westerly, R. I. T claim, isr, the combination of the eccentric bearing. E, adjustable box F, segmentic plusions, G, seguents, H, lever, L, and cylinder, C, substantially as described, for the purpose of reuse the substantially as therein book and (sectided. 24. The vickel, K, and (came, c, the combination with the eccentric bearing, F, for the purpose of reuse the substantially as herein shown and de-scribed. 73.193.--BAG FASTENER.—Daniel Overholtzer, Polo, Ill. 73,215.-WATER WHEEL.-George W. Wheeler and George V. Allen, Hartford, Md. We claim the combination of the three sets of buckets, a bc, and the in-clined rim, d, and bottom, e, to form the wheel, C, in connection with the case, applied to the wheel, and all arranged substantially as and for the pur-pose specified. ion B. I claim, ist, The combination with a crows head and binder of a ratchet fastening, the combination being substantially as described. 2d, The combination of a ratchet is sections, hundle, binder, and cross head, the combination being substantially as set forth. 73,216 .-- MARKER FOR SEWING MACHINES.-- Joseph P. White, 73,216.--MARKER FOR SEWING MACHINES.--JOSEPH F. WING, Savannah. Ga.
Savannah. Ga.
Iclaim, Ist, The spring catch, e, and handle, d, in combination with the presser, C, bar, c, and gage, A, all made and operating substantially as here-inshown and described.
2d, The hemmer, D, composed of two pieces, h and i, constructed as set forth, in combination with its sliding supporting block, f, bar, B, and gage, A, as and for the purpose herein shown and described.
3d, The marker, E F, hingen to the sliding block, k, and provide(i with the spring, m, substantially as herein shown and described in combination with the presser, C, all made and operating set forth.
4th, The adjustable rage, A, when provided with set holes, b, in combination mer, D, and hinged and sliding marker, E F, all made and operating substantially as herein shown.
72.217 — CULTIVATOR.--JOSENH Widman, Panola, III. Prore.-- The above claims for Reissue are now pending before the Patent Office and will not be officially passed upon until the expiration of 30 dcus from the date of filing the application. All persons who desire to onnose the grant of any of these cloims should make immediate annli-MUNN & CO., Solicitors of Patente, 37 Park Row, N.Y. cation. **** The richest silver mining region in Europe, at the present day, is the Aus trian dominions, at Przibram, in Bohemia. Some of the ores found in that 73,217.—CULTIVATOR.—JOSeph Widman, Panola, III. Iclaim, Ist, The detachable seat bars, E E, secured to the main trame, A, of the machine, substantially in the manner a sand far the purpose set forth. 2d, Tue attaching of the front ends of the plow beams, G G, to the pendenta, I, by means of universal joints, H, when this attachment is used in connec-tion with the Div ted arms. O G, connecting bar, P, and lever, Q, tor giving a lateral motion to the plows, substantially as described, 73,196 .- FEED GAGE FOR PRINTING PRESSES.-C. Potter, Jr. place are remarkable, one vein in particular being composed almost wholly We siter, y. R. 1. I claim the true screws, D D', and slotted guide plate, B, in combination with the box, compused of two parts, E E', fitted to the shaft, A, and wi ar-ranged substantially in the manner as and ior the purpose set forth. 73, 197. — (LEVIS. — E. M. Potter, Kalaunazoo, Mich. I claim the employment of the two pulleys, 14 and A', substantially as of ruby silver ores. Some of the zinciferous ores in this vicinity contain a very large percentage of cadmium, as compared with the blendes of other parts of the world. Several of the mines at Przibram are now worked to a depth of more than 1,300 feet, with no appearance of giving out,