RETURN OF COMMISSIONER WELLS.

Hon. David A. Wells, U. S. Commissioner of Revenues, who sailed for Europe last May on business connected with the Revenue Department, returned on the 16th Sept. in the City of London

Mr. Wells was cordially received by the large manufacturers in England and on the Continent, and has returned with valuable information pertaining to foreign manufacturers and industries, which will be laid before Congress at its next ses-

It is soldom that Congress exhibits as much wisdom in selecting officers for special service as it did in choosing Mr. Wells for his commission. Mr. Wells is not a politician, but an intelligent, practical, industrious gentleman, educated to scientific pursuits, author of several standard school and other books, and as a statistician, has few equals, as his last report to Congress, through the Secretary of the Treasury evinces. His next report will be looked for with greater interest than his first, containing, as it probably will, many practical suggestions as to changes in the tariff.

Amusing Typographical Blunders.

The Evening Gazette of this city, one of the best edited papers published in the country, and for correctness of its statements and typographical neatness excels most of its older cotemporaries, thus apologizes for one of its compositor's amusing blunders:

"A' bewildered reader' wants to know what Sala means by saying that the French call the English" a nation of grasshoppers." To tell the truth, our compositor did Sala a great injustice. We wrote-what everybody is familiar with-"a nation of shop-keepers;" but the printer preferred the word grasshoppers and the proof-reader agreed with him. In fact, the misprint in question was one of the most amusing in the history of typographical errors."

Justifying Type by Machinery.

Mr. Charles W. Felt, of Salem, Mass., has been engaged for several years upon a composing machine that shall not only compose and distribute type, but also justify the matter. He has recently exhibited, in this city, a little justifying machine about fourteen inches long, which can be adapted to any of the other type-composing machines quite as well as Mr. Felt's. He purposes to commence manufacturing these justifying machines and attaching them to such composing machines as are in use, and at some future time will introduce his own composing machine for competition with the others.

THE MECHANICS' FAIR at Lowell, Mass., began on Tuesday, and will continue one month probably. There are one thousand three hundred exhibitors, and the articles on view are very numerous. The halls thrown open cover nearly an acre

OFFICIAL REPORT OF

PATENTS AND CLAIMS

Issued by the United States Patent Office,

FOR THE WEEK ENDING SEPTEMBER 17, 1867. Reported Officially for the Scientific America

PATENTS, ARE GRANTED FOR SEVENTREN YEARS the following being a schedule of fees:-

On filing each Caveat.	010	ł
On filing each application for a Patent, except for a design On issuing each original Patent.	15	i
On issuing each original Patent.	20	t
On appeal to Commissioner of Patents	k2 G]	1
On application for Reissue	k 3 0	ı
On application for Extension of Patent.	85C	i
On granting the Extension.	550	Ì
On filing a Disclaimer.	610	ĺ
On filing application for Design (three and a half years)	610 J	ł
On filing application for Design (seven years)	515	ł
On filing application for Design (seven years) On filing application for Design (fourteen years)	390 T	i
In addition to which there are some small revenue-stamp taxes. Resider		

of Canada and Nova Scotia pay \$500 on application, Pamphlets containing the Patent Laws and full particulars of the mode of applying for Letters Patent, specifying size of model required, and much

other information useful to Inventors, may be had gratis by addressing MUNN & CO., Publishers of the Scientific American, New York,

-Portable Horse-power.-Hiram Aldridge, Gosh

68,829.—PORTABLE HORSE-POWER.—Hiram Aldridge, Goshen, 1nd.

1st, I claim the movable hounds or braces, O.P., applied to the front and reat ends of a portable horse-power in such manner as to secure these ends down to the ground upon their wheels, substantially as described.

2d, The combination of diagonal braces or ties, R.R., with the inclined braces, O.P., and a portable horse-power which is mounted upon four wheels, substantially as described to the transporting wheels of a four-wheel Sd, Locking devices applied to the transporting wheels of a four-wheel herse-power, substantially as and for the purposes described.

4th, Locking devices applied to the front axle of a four-wheel portable horse-power, substantially as described.

5th, The construction of the cast-tron ring, E, for the purposes and substantially as described.

6th. The arrangement of the coupling shaft, J, or its equivalent, so as to admit of the attachment of tumbling shafts to both ends of it, substantially as described.

7th. The auxiliary removable, supporting frame, S, applied to the portable horse-power frame, substantially in the manner and for the purpose described.

scribed.

8th, Combining' sweep or lever horse-powers with a permanent four wheel carriage for transporting the same and which is arranged with means that will admit of the locking of its wheels and the securing of the machine down upon the ground upon its wheels for operation, substantially as described.

9th, The permanent hound or braces, O.P., applied to the front axle of a portable horse-power in such manner as to prevent said axle from moving right or left on its wheels when said power is operated, substantially as described.

scribed.

10th, The diagonal braces or ties, R.R. applied to a portable horse-power which is mounted upon and adapted for being operated upon four wheels,

10th, The diagonal braces or ties, R. R. applied to a portable horse-power which is mounted upon and adapted for being operated upon four wheels, substantially as described.

68.830.—L.Quid Meters.—Richard H. Atwell, Baltimore, Md. 1st, I ciaim the valve, K. constructed and operating in combination with the wheels, D, substantially as described for the purpose set forth.

2d, The helix, H, in combination with the shaft, C, water wheels, D, and registering d-vice, substantially as and for the purpose specified.

3d, The arrangement of the rims or partitions, a a', water wheels, D, and valve, K, substantially as described.

68,831.—Reel — F. A. Balch, Hingham, Wis.

1st, I claim the parallel bars, C D, to connect the head, B, and winding blade, E, of a red; substantially as and for the purpose set forth.

2d, The head, B, and blade, E, connected by the parallel bars, C and D anbetantially as set forth in combination with the sliding head, F, and connecting rods, G, for the purpose of retaining the winding blades more or less distended as desired. -Machine for Dressing Weavers' Harness.—A

idence, K. I.

1st, I claim the combination of an endless tenter-hook belt, C C', with the revolving brushes, F F, substantially as described for the purposes specified.

2d, The combination in one machine of the endless tenter-hook belts, C C', or equivalent means for supporting and conveying the harnesses an apparatus for sizing and an apparatus for varnishing a weaver's harness, substantially as described for the purposes specified.

3d. The reciprocating brushes, kk', when arranged to act upon the harness, in the manner and by the means substantially as described.

4th, The combination of the endless tenter-nock belts with the reciprocating bru hes, k k', substantially as described.

68,833.—CANAL LOCK.—Martin Bishop, Putnam, Ohio.

68,833.—CANAL LOCK.—Martin Bishop, Putnam, Ohio.

1st, I claim the construction of the gate operating onlis shaft, L, with its
arms, M, fitting between the divisions, N, and having bracing, P, and resting below the bottom of the canal in the correspondingly shaped chamber,
R, as herein described and for the purpose set forth.

2d. I also claim the chamber, R, constructed as described with subdivisions,
N, located beneath the bottom of the canal, as herein described and for
the purpose set forth.

3d. I also claim, in combination with such chamber and gate, the adjustable wickets, operated as described and for the purpose set forth.

4th, I also claim, in combination with the gate, the movable device or apparatus, S, as herein described and for the purpose set forth.

68,834.—PRESERVING EGGS.—L. H. Boole, New York City.

1st, I claim the process of preserving eggs by desiccation and compression
substantially as herein described.

2d, As an article of manufacture eggs desiccated without heat, substantially as berein described.

3d, As an article of manufacture eggs desiccated and compressed, substantially as berein described.

68,835.—SEWING MACHINE.—C. F, Bosworth, Milford, Conn.

tially as herein described.

68,835.—SEWING MACHINE.—C. F. Bosworth, Milford, Conn.

1st, I claim the combination of the slot, I, in the one plate and the slot, H, in the other with a connecting rod, K. constructed with its two bearings, a and b, so as to operate substantially in the manner herein setforth.

2d, The arrangement of the positive take-up, Q, with its cam, S, formed relatively to the movement of the needle and in combination with the third eye, at on the needle slide, so as to operate in the manner specified.

3d, The arrangement of the tongue, m, upon the shuttle carrier in the position relative to the return tongue, I, so as to operate as described.

68,836.—LADDER.—Margaret D. Boyd, Buffalo, N. Y.
I claim the employment of the sockets, B, for the reception of the ends of sections when so arranged that the bolt which fastens them and the sections together acts at the same time as a step or round for the ladder.
68,837.—LIFTING JACK.—A. C. Brincer, Middletown, Pa.
I claim the square reversible link, H, with its rope, J, when arranged and combined with the movable lever, E, and post, B, with its stationary pins or riveted bolts, C, as herein described and for the purposes set forth.
68,838.—TELEGRAPH APPARATIS.—I M Brown Auburn N V riveted bolts, C, as herein described and for the purposes set forth. 68,838.-TELEGRAPH APPARATUS.-J. M. Brown, Auburn, N. Y.

I claim the square reversible link, H, with its fope, J, when arranged and combined with the movable lever, E, and post, B, with its stationary pins or riveted bolts, C, as herein described and for the purposes set forth.

68.838.—ELEGRAPH APPARATUS.—J. M. Brown, Auburn, N. Y. I claim the combination and arrangement of the electro magnets, B A, excited by the current of the mainline with the electro magnets, A A, excited by a local current traversing the armature lever, D, contact point, E, and pillar, I, as and for the purpose set forth.

68.839.—SEWING MACHINE.—Lewis Budd Bruen (assignor to the Bruen Manusaturing Company), New York City.

1st, I claim the combination of eye-pointed needle, b, thread carrier, M, cain, C, beed bar, H, and rotating hook, L, operating together to form seams, as described.

2st, The combination of eye-pointed needle, b, thread carrier, M, cain, C, leed bar, H, and thread carrier, M, acting in combination, substantially as and for the purposes explained.

3st, Cam, C, Blde, and thread carrier, M, acting in combination, substantially as and for the purposes explained.

4st, Cam, C, Blde, and thread carrier, M, acting in combination, substantially as and for the purposes explained.

4st, Cam, C, Blde, and thread carrier, M, acting in combination, substantially as and for the purposes explained.

4st, Cam, C, Blde, and thread carrier, M, acting in combination, substantially as and for the purposes of PRODUCING GAS FOR FUEL.—John H Burgin assignor to bimself, George H, Burgin, Jr., Charles F, Burgin and Wilson M, Burgin) Philaedliha, Pa.

1st, I claim introducing steam into gas producing overs in quantity sufficient to prevent the rapid combustion of the fuel at hough the fuel at a dull cherry-red heat while the lower portion is kept in a state of incandescence, in the manner and for the purpose at orange and the said overs below the grate bars or bottom theerof directly into the body of incandescent fuel in the jets or in a continuous this sheet or inseveral such sheets in quantity an

E and pad, D, all constructed and arranged as spicified.

68,843.—SHIFTING RAIL FOR CARRIAGE TOPS.—Patrick G. Clancy, Augusta, Me.

I claim the arms, b b', having the gain, C, decreasing in width from its outer to its inner side, and having the short shoulder, x', and the rounded or beveled corner, s, substantially as and for the purposes specified.

2d, The wedge-shaped socket plates, a a', substantially as and for the purpose specified.

3d, The goodbiration of the bent arms, b2 12, with the notched arms, b b', substantially as and for the purpose specified.

Ed. The combination of the bent arms, by B., with the notched arms, b b', substantially as and for the purpose specified.

(8,844.—Thill Coupling.—L. C. Clark, Davenport, Iowa. I claim the thill iron, B. constructed as described, in combination with the clip, A, having the packing, a. arranged between the ears, A''', on the plate, A', all arranged to operate as and for the purpose set forth.

(88,845.—Snow Plow for Railroads.—Henry H. Clemons,

Oshkosh, Wis.

I claim as ow plow for railroads, composed of an inclined platform, A, a plow, B, and the cutters, C, constructed, arranged, and operating, substantially as herein set forth and described.

68,846.—HARNESS BUCKLE.—W. H. Cocks, Richmond, Ind.

1 claim the loop or slide, C, spring, P, and one or both of the pins, d and e, in combination with the strap, A and B, all arranged and operated substantially as set forth, and for the purpose described.

68.847. — WATER ELEVATOR. — Pearce K. Curll, Elkridge

68,847. — WATER ELEVATOR. — Pearce K. Curll, Elkridge Landing, Md.

1 ci im a water elevator, consisting of a series of buckets, E. having journals attached as described, and connected by the detackable links, I. with the flanged rollers, n. applied to the journa's, the whole mounted in a suitable frame, having tracks, A and B, for guiding and supporting the series of buckets, all constructed and agranged to operate substantially as described.
68,848. — CULTIVATOR. — Elliott Davies, Jr., Carthage, Ill.

1st, I claim the lever, S, in combination with the sliding cross bead, M, mounted on side pieces, C C, and bearing pieces, O O, connected by stay rols, P, to main axle, A, and bearing the two inside plows, R R', all substantially as specified.

2d. The stationary back plows, F F, connected to the cross piece, D, in combination with the side pieces, C C', the sliding cross head, M, with its plow, R R', the wheels, B B', seat, K, and the tongue, H, hinged to ends of pieces, C C' all substantially as specified.

68,849.—STEAM GAGE.—George M. Davis, Chicago, Ill.

1 claim the diaphragm, A, arranged to support the devices, D B C H, and having rims, P P, for clamping plate, N, to projection, M M, on back, K, substantially as and for the purposes set forth.

68,850.—MODE OF PRESERVING MEATS, ETC.—E. de la Granja (assignor to himself and Herman Susmann), Boston, Mass.

1 claim the process of preserving meats, by applying the injection or saturating mixture above described, in combination with the impermeable covering, substantially as and for the purpose set forth.

68,850.—WASHING MACHINE.—A. Denison, Stillwater, N. Y.

1 claim the revolving box, B, constructed of wooden bars or slabs, h, and end pieces, D, in the form of a polygonal prism, with a hinged section ex.

I claim the revolving box, B, constructed of wooden bars or slabs, h, and end pieces, D, in the form of a polygonal prism, with a hinged section extending its entire length, and having journals attached to t as described, in combination with the journals, E.E., Journal boxes, F.F., and balls, l, open tank, A, when arranged to operate in the manner and for the purpose spect.

68.852.—Pump Piston.—Wm. E. Derrick (assignor to him-68,852.—PUMP PISTON.—Wm. E. Derrick (assignor to himself and Aaron Peck), Jordan, N.Y.
I claim the pump piston, having two sets of induction and eduction ports, and a valve, G, with two flat wings, connected together by a shank which is held in position by the solid pivot, a, upon the lower half, D, of the piston head, all the parts being constructed and arranged in the manner shown and described, and for the purposes set forth.

68,853.—STEAM ENGINE.—E. N. Dickenson, N. Y. city.
1st, I claim the combination of the two lifters, on the same lifting rod, one being fixed to it, and the other sliding upon it, for the purpose of effecting the reduction of the initial motion of opening steam valves, substantially as described.

the r-duction of the initial motion of opening steam valves, substantially as described.

2d, telaim the combination of the lever for opening the steam valve gradually, with the fixed and movable lifters, the one being moved by the motion of the lifting rod, and the othersupporting as eparate disengaging apparatus, substantially as described.

3d, telaim a lever, one end of which is raised by the fixed lifter or the lifting rod, and by which the steam valve is pried open gradually, so arranged that it can be adjusted to vary the speed of lifting, without characting the position of the point on the lifter relatively to the valve stem, to which the lifting power is applied, substantially as described.

4th, I claim the vibrating tripper, centered upon the lifter itself, which opens the valve, as distinguished from a tripper which is centered, or some other part of the machine, substantially as described.

5th, I claim the vibrating die for ergsging and disenging the valve stem to effect a cut-off, so arranged that it will vibrate in an arc whose concave side is presented to the valve stem, substantially as described.

6th, I claim the collar which surrounds the valve stem, having one or more radial ribs upon it, for the purpose of cooperating with a movable die to effect a cut-off, substantially as described.

7th, I claim a "dash pot," whose plunger is composed of two cylinders of unequal diamerers, the smaller of which is the arresting plunger, forming the bottom of the larger one, and whose extrior chamber is composed of a cup of secondary reservoir, to receive the arresting plunger, and above it a confining vessel to guide the larger cylinder of the plunger, and above the air, substantially as described.

8th, I claim the combination in a rock shaft of one false exhaust toe, and one fixed one by which it is supported, with a stud or prop between them, so arranged that it can be dropped or elevated at pleasure, substantially as described.

-Grinding and Polishing Metals.—Menno Alber-

OS, 04.—GRINDING AND POLISHING METALS.—Menno Aldertus Diedrichs, and Johann Henricus Diedrichs, Baltimore, Md.

1st, The sliding frame, m. in combination with flanges or tracks, N N1 N2, adjustable strip, N3, set screw, N4, when constructed and operating in the manner and for the purpose set for th.

2d, The pivoted trame, I, in combination with the weighted lever, L, slotted cross piece, V, dors, W W, curved notched arm, Y and spring plate, c, constructed and operating as and for the purpose set for th.

3d. The adjustable stop pins, f, heads, f, and rib, M, in combination with the lever, S, and pivoted frame, J, constructed and operating as and for the purpose set for th.

lever, S, and plyoted frame, J, constructed and operating as and for the purpose set forth.

4th. The lever, L, provided with hook, b, in combination with the hinged dogs, W W, arm Z Z', and chain, a, constructed and operating as and for the purpose specified.

5th. The frame, O, provided with arms, O' O', in combination with the slotted aljustable bed plate, b, and boits, 1 l', constructed and operating as and for the purpose set forth.

6th. The combination of the adjustable racks, g g', having set screws, g2, screw shaft, l, pinion, o, pawl. n, fixed ratchet, m, upright arm, l, pivoted box, k, and pivoted frame, O, substantially as described, for the purpose specificd.

68,855.—Ifay Loader.—Martin A. Dilly, Mendon. Mich. 1st. The arrangement and combination of the hinged tilting bars. A a B b.

DS.800.—HAY LOADER.—Martin A. Dilly, Mendon. Mich.

1st. The arrangement and combination of the hinged tilting bars, A a B b, and gulde rod, I, with the hay fork, and with its lifting bar. L, automatic stop, k, and derrick frame, substantially in the manner described.

2d. Connecting the fork lines, t, to the head bar, J, by threaded bifurcated ends, e, short clamps, c, and nuts, n, substantially asset forth.

3d, The driver's seat, W, placed over the driving wheel, the axle of which carries a winding frum, N, in combination with an oscillating foot treadle, V, connected and arranged so that the driver with his foot may control the ascent and descent of the fork in the manner substantially as herein speciment.

ascent and descent of the fork in the manner substantially as herein speciated.

4th, The guard points, P, in combination with the fork times, t, substantially as and for the purpose berein described.

68,856.—BARREL HEAD MACHINE.—John B. Dougherty, Rochester, N. Y.

Iclaim. ist, an automatic barrelhead, turning machine, when the automatic movements or adjustments are produced by suitable canis, P C, and C", and their necessary connecting rods, substantially as herein shown and described.

2d, in combination with the sliding or clamping shaft, Y, the feathered pinon, P", spheral springs, J, collar, c"', lever, L', and cam, C', they being arranged and operating conjointly in the manner and for the purposes shown and described.

3d. The arrangement of the set screw, k, pivoted nut, n, and the lever, L, in connection with the clamping heads, M and N, substantially as shown and described, and for the purposes set forth.

68,857.—Burglar Alarm.—Charles A. Eaton, Minneapolis, Minn.

described, and for the purpose set forth.

68,857.—BURGLAR ALARM.—Charles A. Eaton, Minneapolis, Minn.

I claim, 1st, The combination of the perforated plate, e, with the cock, C, as and for the purpose specified.

21. The combination of cock and trigger, C D, with block holder and slide, A B F, substantially as and for the purpose described.

68,858.—THREAD POINTER.—Elijah Eaton, Hartford, Ct. I claim a thread pointer, consisting of the binged plates. A and D, the ends of which are provided with projections, B F, the faces of which are corrugated, scrated, or provided with a file surface, substantially as and for the purpose specific.

ALL STATES AND ASSESSED AS A STREET AND A STREET AS A

pecifical.

Also, so constructing and providing with sharp projecting points the bars,
, substantially as and for the purposes specified.

specines.

Also, so constructing and providing with sharp projecting points the bars, B, substantially as and for the purposes specified.

68.860.—APPARTUS FOR DISTILLING, EVAPORATING, AND REFINING OILS AND OTHER LIQUIDS.—John Ellis, New York city, and E. C. Kattell, Bliphamton, N.Y.

We claim, 1st. The above described process for desiccating or evaporating section in the same alkaline, or other aqueous solutions by the use of supersected steams and seed bed.

24. The claim, 1st. The above described process for desiccating or evaporating section from the section of a superheated steam and oil, or other liquids of the seed of forced through it or them in the same or in opposite directions, the fluid will, naturally, from its superior gravity repeatedly pass turough the current of steam, this thoroughly in xig it with the steam in a comparatively confined space heating it and or and vaporizing it, as occurs in the tubular portion of or apparatus, and as will result if a spiral pipe is placed in a horizontal position, or approaching that position, and steam or superheated steam, applied directly to the liquid, either in a pipe of a tentry tupward, either vertically or at any inclination, or in any direction, upwards in such a mamor that his same oil or fluid will not return to pass through the same part of the pipe or retory typically in the same part of the pipe or retory the same part of the pipe or retory the same part of the pipe or of pipes, so heat or connected by return bends that portions lie paralic, or hearly so, with each other, as shown in the drawings and described in the specifications.

Sth. A horizontal flat-bottomed chamber, connecting with a vertical chamber, and receiving the lower end of a pipe from a tubular retort.

6th. So constructing a retort, where either steam or superheated steam is to be used in direct contact with the oil or other fluids, that there shall be no chance for water from condensed steam to collect in the retort, owing to the escape pipe for the unwaporized portion of the o

vapor.

Total, The forcing of oil through a raseinto a retort, into contact with a current of superheated steam.

Sth. The water pipe, K. passing back and forth, in combination with a horizontal condensor, substantially as represented in the drawings.

zontal condensor, substantially as represented in the drawings.

68.861.—TANNERY.—Lewis C. England. Philadelphia, Pa.

1st, I claim banging bars, 1B, with center and end lugs constructed and operating in the manner herein set forth and described.

24. The arrangement of conveying off the weak or spent liquors from the tan vats either by a hollow beam, HB, with openings, 1'2' 3'4'5'6', placed near the top and running through the center or on the side of the yats or any other arrangement substantially the same to accomplish the desired purpose.

3d. Troughs, TT and T", supply ubes, ST, perforated distributing tubes, DT, tube, BT, jank No. 1, with pump junk No. 2, and connecting tube, C, all constructed and combined in the manner and for the purpose above set forth and described.

4tt, A tannery constructed and arranged in the manner herein described.

forth and described.

4th, A tannery constructed and arranged in the manner herein described.

68,862.—BRICK MOLD.—John Evans, Davenport, Iowa.

I claim a brick mold having sliding bottoms, A, and side bars, B, the
movements of which are regulated by guides, C, and grooves, D. substantialtive dearribed. ly as described. 68.863.—Hydraulic Engine.—Mahlon Everett, (assignor to

68,863.—HYDRAULIC ENGINE.—Mallon Everett, (assignor to himself and Henry F. Cock.) Kalamazoo, Mich.
I claim the valves, P and P, the valve arms, L L and the arms, H1 H2 H3 H4, in combination with the arm rods, G G, and piston rod, M, all arranged and operated as and for the purposes herein set forth.
68,864.—TRACE BUCKLE.—Oscar Finch, Owego, N. Y.
I claim a trace buckle with a curved lever pressing the trace outward against wo cross bars, thereby preventing the trace from tearing or breaking, and preventing in lary to the horse as set forth.
68,865.—BALANCING MILL STONES.—John Foley, Cleveland, Obia.

68,865.—BALANCING MILL STONES.—John Foley, Cieveland, Onio.

1 claim the employment of the solid and chambered weights, c.g., with their respective devices for adjusted them applied externally to the loop, F. the whole arranged and operating in the manner and for the purpose described. 68,866.—HAME FASTENER.—A. J. Foster, Lake Mills, Wis. I claim in combination with the hames, A, the metallic strap orbar, B, provided with teeth or corrugations, b b, and the link, c, arranged and operating substantially as and for the purposes specified.

68,867.—COMPOUND FOR DESTROYING INSECTS.—Samuel Galbrath, Pine Grove Plantation, La.

I claim the composition above described, when compounded and used in the manner and for the purpose specified.

68,868.—WINDOW PULLEYS.—(). S. Garretson, Buffalo, N. Y. I claim dividing the box or cap, C, into equal or nearly equal parts, by the segmental line, m, when the convex porthors, b, form a part of the outer plate, g, and enclose the axle bearings, i, substantially as and for the purposes set forth.

68,869.—MALT KILNS.—Joseph Gecmen, Chicago, Ill.

1st, I claim constructing the perforated floors in separate sections, b, arranged and operating substantially in the manner and for the purposes set

1st, I claim constructing the perforated floors in separate sections, b, arranged and operating substantially in the manner and for the purposes set forth.

2d, I claim in combination with the series of floors in a malt kiln the arrangement of the space, R, provided with one or more openings, e f, substantially in the manner and for the purposes described.
68,870.—TOOL HOLDER FOR TURNING LATHES.—Samuel Gis-

singer, Lawrenceville, Pa.

I claim the pivoted leaf, B, when used in combination with the nuts, y, screws, c, armed with whe ls, m, said wheels, screws and nuts being operated through the medium of the endless screw, n, the whole being arranged combined and operating substantially in the manner and for the purpose herein described and set forth.

68.871.—DEVICE FOR HATCHING THE SPAWN OF FISHES.—

Seth Green, Rechester, N. J. Claim the eloployment use of the fish propagator, or spawn hatcher, constructed and stranged substantially in the manner and for the purposes herein shown and described.

68,872.—SPINNING MACHINE.—J. Hart, S. Hart and J. Rees-

man, Farmington, Iowa.

1st, We claim the arrangement of the combined clutch and drum, r. for conrolling the motion of the carriage with the spindle driving shaft and its pul-

leys. 2d, The tripping lever, T, cord, w, lever, P, latch pin, t, and spring rod, M, carrying arms, s s, in combination with a drum, r, which is provided with a clutching device, all being arranged and constructed in such manner that when the carriage presses against the lever, T, the drum, r, will be madeloose upon its shaft and this carriage caused to stop further backward movement. 3d. The roping clamp, K, constructed of plates, I, and an intermediate sliding plate, m, notched and perforated, substantially as described.

4th, Providing for nuwinding the roping from its spool, G, during aportion of the backward movement of the carriage, E, by means of a friction roller, F, and vertically and end wise movable bars, J J, which latter are actuated by the arms, J', on the carriage, substantially as described.
68,873.—Horse Hay Fork.—Levi Haverstick, Mannor Town-

68,873.—HORSE HAY FORK.—Levi Haverstick, Mannor Township, Pa.
I claim the arrangement of the boisting arm, A, with its eye, a, pulley, L, with or without the spur tooth, B, together with the elbowed latch, C, D, and notched click, F, in combination with the tine or tines, G, and ratcheted terminous and eye, g, hid together by rivets, and operated substantially in the manner and for the purpose specified.
68,874.—ELEVATING BLOCK.—Wm. H. Hawley, Utica, N. Y.
1st, I claimthe arrangement of the pulleys, B and B and D, in the same plane, with the two first above the other, substantially as described.
2d, The mode substantially as here in described or everning the motion of the apparatus and the draft robe by means of the stops, C and F.
3d, Thie track rope pulleys, B and B', and the stop, C, in combination substantially as described and for the uses and purposes mentioned.
4th, The draft rope stop, F, and pulley, D, in combination substantially and for the uses and purposes mentioned.
68,875.—CAR BRAKE AND STARTER.—Robert Heneage, Buffa-

68,875.—CAR BRAKE AND STARTER.—Robert Heneage, Buffa-

1st, I claim the brake wheels, E E', in combination with the colledspring i, gearing, j k k's, levers, H H. I I and connecting bars, m m', arranged and operating substantially in the manner and for the purpose set forth.

2d, I also claim in combination therewith the spring, g, g, arranged and operating substantially as specified.

3d, I also claim the sandards, F, with their lower ends attached to and resting upon the axie, D, while their upper ends are held by guides, G, so cured to the bottom of the car which slide up and down thereon with the springing of the latter, arranged and operating substantially in the manner and for the purpose set forth.

(88,876.—HANGING GRINDSTONES.—David B. Herrinton, Detroit, Mich.

68,876.—11ANGING GRINDSTONES.—Dayle B. HOTHMAN, Letrot, Mich.
I claim the arrangement and combination of the plates, D D and C, and the set screws, C C and c, with the grindstone or pulley, A, and the shaft, B, or any other device, substantially the same, for the purpose designed.
68,877.—VEGETABLE SLICER AND GRATER.—T. G. Hofer, St.

58,877.—VEGETABLE SLICER AND GRATER.—T. G. Holer, St. Louis, Mo.
I claim the outside conical cylinder, A, the revolving conical cylinder, E, the adjustable knives, p p' p" p", the movable rim, R, with its eccentric and regular slots, the grating cone, L, and the vise, V, all in combination, when constructed and arranged substantially as shown and described.
68,878.—CANT HOOKS.—Joel A. Howe, Bangor, Me.
I claim the lip, i, in combination with dog, d, substantially as set forth.
68,879.—STEAM ENGINE SLIDE VALVE.—Samuel W. Hudson, Rever Meadow Pa.

Beaver Meadow, Pa.

1st, I claim the wing, B', projecting from a slide valve to move it by the action of steam substantially as described.

2d, The arrangement of the steam passages, b bi b2 b3, substantially as and for the purpose specified.

68,880.—Carriage Curtain Fastener.—Abel Hunt and

Spencer Mero, Jr. Canden, Maine.

We claim the construction, arrangement and combination of the parts, B C
DF G and H, as represented in the several figures on the drawing.

68,881.—Shoe Spike.—Robert Hutchison, Newark, N. J.

I claim as one w spike formed with a point, 2, a screw portion, 1, and a polygonal base, 3 for the reception of the key, f, in combination with the metallic sock t secured to the sole of the boot or shoe as and for the purposes set forth.

10rth.
68,882.—Brick Machine.—George W. Ives, (assignor to himself and Alfred Ives,) North Haven, Coug.
1 claim the arrangement of the lever, F, in combination with the lever, E, and arank or cam, C, so as to operate substantially in the manner herein set

forth.
68,883.—CANT HOOK.—Edward Jewett, Rindge, N. H.
I claim the combination in a caut hook of the hook, B, and serrated plate
D, constructed and operating substantially as and for the purpose set forth.
68,884.—BUILDING.—Job Johnson and Elijah D. Davis, Brooklyn N.

lyn, N. Y.
We claim the buttons or plates to secure the edges but allow the boards to xpand or contract, in combination with a strip of metal or similar matchal coured to the edges and covering the joints substantially as set forth.

8,885.—MANUFACTURE OF MINERAL KNOBS.—Josiah Jones,

Brooklyn, N.Y. assignor to Thomas Kennedy, Branford, Conn. I claim the process herein described for the manufacture of mineral knobs. 68,886.—CLAMPING DEVICE.—Edwin King, Fredonia, N. Y. I claim the improved clamp, A. provided with the return edges, D.D., knife edge projection, F. slot, B., bolt-hole, C, and bolt, D', in combination with fence posts and trellis poles, so as to operate in the manner substantially as herein specified and for the purpose set forth.

herein specified and for the purpose set forth.

68,887.—HAY RAKER AND LOADER.—N. S. Kinyon and B. F. Smith, Chenango Forks, N. Y.

We claim the inclined guidet eth, L. L., and the wire guards, R. R., in combination with the rake and elevating teeth and the endless carrier all being constructed and arranged submanifully as set forth.

68,888.—OPERATING DRULL—E. G. Lamson, Shelburne Falls,

Mass,
ist, I claim the air spring substantially as and for the purpose described,
At, the device whereby I regulate at pleasure the momentum of the brow
struck by regulating the speed of the driving machinery, the greater the
speed the harder the blow substantially as and for the purposes described,
3d. The device whereby I cause the piston headcarrying the striking mech
anism to operate in a different direction from the piston head attached to
the driving mechanism, substantially as described,
4th, The mechanism for swinging out the drills longitudinally substantially
as and for the purpose described.
5th, The mechanism for swinging out the drillslaterally substantially as and
for the purpose described.

or the purposes described.

6th, The mechanism for swinging out the arilisia terally substantially as and for the purposes described.

6th, The mechanism for confining the drills in gangs substantially as and for the purposes described.

7th, The form and diposition of the cutting edges of the drills substantially as and for the purpose described.

68,889.—LAMP BURNER.—J. C. Love (assignor to W.H.Love)

68,889.—LAMP HURNER.—J. C. Love (assignor to w.H.Love) Philadelphia, Pa. 1st, I claim the wick tubes, BB, arranged adjacent to each other, in combination with a casing and with a dome or plate having a single opening through which the fames from both wick may pass and the edges of which are parallel to the sides of the wick cubes the whole being constructed and arranged as and for the purpose described.

2d. The case, C, with its partitions, a a, in combination with the tubes, BB, and dome, d, the whole being arranged substantially as and for the purpose specified.

sand utility, up to the shore and the plate, c, and its lips, i i, arranged in respect to the openings, e, substantially as set forth.

68,890.—FAN.—Wm.Lucas,(assignor to Oliver Downing), New

68,890.—FAN.—WILDUGAS, (assigned a continuous).

Haven. Conn.

I claim the two edges, D, slotted and pivoted between the plates, B, and arranged so as to operate substantially in the manner herein set forth.

68,891.—Liffing JACK.—E. L. Marsh, Greenwich, Ohio.

I claim the lever, E, check yoke, G, and trapeze or swing, D, when constructed and arranged in combination with the standards, B, and base, A, in the manner as and for the purpose set forth.

68,892.—INVALID BEDSTEAD.—John Massey (assignor to him-self and Peter M. Stagg), New York City. Antedated Sept. 7, 1867. Ist, I claim the combination with a bedstead of swingmerarms or slurg, G, provided with stirrups or rests, m, for operation substantially as specified. 2d, The hinged portion, F, of the foot board constructed as described to form a table to the bedstead substantially as set forth.

68,893.—Clothes Wringer.-G.M McMaster, Rochester, N.Y

58,595.—CLOTHES W RINGER.—G.M MCMaster, Rochester, N.Y. 1st, I claim the employment or use of the friction or traction pulleys either with or without a ronghened periphery, arranged and operating substantial by in the manner and for the purposes herein snown and described.

22., The adjustable shaft, S. arranged and operating in connection with the driving graft, (c, and rollers, R and R, and coupling, h and d, substantially as and for the purposes set forth.

3d, The relative arrangement of the two separate side clamps, C, provided with a suitable dowel, p, and suspending strap, q, and when they are so made as to have each two separate bearings horizontally as and for the purposes surfitted.

poses specified. 68,804.—Brick Machine.—J., M. Moyer, Pittsburgh, Pa.

I claim the sickle or shear spuds, F, and lower knife or drag, H, in hopper, in combination with the raised bowl constructed arranged and operated A, in combination with the table to be in manner set forth.

I claim the knife, L., and plunger, M, constructed and applied in manner to the state of the set of the

i claim the knife, L, and plunger, M, constructed and applied in manner and form substantially as described.

I claim the brick wheel, N, with slots and grooves to admit molds operated substantially as set forth.

I claim the arrangement of the stop cam, U, in connection with knife, a, and arm, R, arranged and operating in manner described.

I claim the mold with hirged base constructed and used as described, to and for the purpose in traded.

and for the purpose in tended.

68,895.—A TTACHING THILL TO CARRIAGES.—A. Odell N. Y. City assignor to bimself and David Granger Collinsville, Conn.

I claim the combination of a shaft iron made as herein before described with an aperture, E, in it with the non-movable jaws of a jack substantially as described, and for the purposes hereinbefore selforth.

68.896.—Brick Press.—C. D. Page, Rochester, N. Y. LOU.—DRICK PRESS.—U. D. Fage, ROCHESTER, N. Y.

t, I claim the combination with the hopper, G, of the rack, c.c., and

p, H, for filling the molds and giving the initial pressure, operating subtially in the manner and for the purpose specified.

i, he thin passage, k, leading from the pug mill, combined with the rollk. in the manner and for the purpose herein set forth.

Giving the tollowers an upward pressure under the pug mill, as and for
purpose specified.

the purpose specified. 68.897.—STEAM TRAP.—B. F. Perkins, Holyoke, Mass.

1st, I claim a steam trap operated by two or more compound plates so arranged that the expansion or courraction of one is conveyed to the second and of those two, to the third, and last and valve, D, as represented at Fig. 1 $E\,1\,^2\,3\,^4$. Also the spindle, G, and nots. E and H, the whole arranged and com as herein described and for the purpose specified.

An ed as here in describe a and for the purpose specifies.

88.98.—Cooking Stove.—Gustavus Perkins, Burlington, Vt. 1st I claim the elevated oven, d, and boiler, g, when arranged as described in combination with yoke, y, substantially as set forth.

2d, The hot air chamber, I, formed by the bevel of the two fire pots, H H, register, V, and aperture, W, substantially as and for the purpose set forth.

3d, The supplementary pan, L, for cleaning the flues of a cooking stove substantially as shown and described.

4th, A cooking stove cousisting of fire pots, H H, ovens, Ef and d, boiler, g, connected with d, by yoke, y, Luc, J, dampers, M N O F QR, all arranged and combined as herein set forth and described.

68,899.—HAT.—W. H. Plumb, (assignor to Henry de Tavala,) New YORK City. Antedated Sept. 4, 1867.
I claim a locking obstruction applied to the interior of the hat, operating, ill unlocked and displaced or removed, to impede or prevent the wearing of

68,900.—REVERSE LEVER PITMAN.—James and Wheelock W.

Porter, Wauconda, Ill.

We claim the combination of a wheel, A, provided with pins, H, or their equivalents, levers. F, and pirman, E, arranged and operating substantially as and for the purposes specified. as and for the purposes specified. 68,901.—PLOW.—Wm. Richardson, Hookstown, Md.

ist, I claim the boxes, EE, substantially as and for the purpose described.
21, The graduated beam, C, for the purpose specified.
34, The graduated blow shanks, or plow standards, G' G', for the purpose specified.

specified.

4th. The arrangement of the removable plow, E, with the adjustable and removable plows, \$\mathbb{C}\$, substantially as and far the purpose specified.

5th, The constination of the plow shanks, \$\mathbb{C}\$ of the boxes, F F, the set screws, H H, and the cross beam, C, substantially as and for the purpose specified. 68,902.—Fence Post Pedestal.—Jos.Robbins, Amnerst, Ohio.

I claim the herein described pedestal when constructed with standards, B, ribs, D, and pin, E, in combination with the post, G, in the manner as and for the purpose set forth purpose set forth.
—Spade for Digging Postholes.—Matthew L. Rob-

68,903.—SPADE FOR DIGGING POSTHOLES.—Matthew L. Roberts, Smithville, Canada. Antedated Sect. 8, 1867.

I claim the construction and arrangement of the blades, A. A. hinged together at their upper ends by means of the ring segments, C. C. and having the handles, B. B. united to them at points equidistant from the joints thereof, substantially in the manner and for the purposes herein specified.

68,904.—CARRIAGE.—James Rock, Hastings, Eng.

I claim the employment of springs or weights, substantially as hereinbefore described, to counterbalance the movable parts of folding carriage or wagon heads or coverings, in order to raise or close, or to assist in raising or closing such heads or coverings, in order to raise or close, or to assist in raising or closing such heads or coverings.

I also claim the combination as well as the arrangement of the bent levers, by the connecting rods, d, and the springs, a al, also, their combination with the jointed prop bars, II, the carriage body, its joint bars, II, movable back, e el, and top piece, fII, a means or mechanism, substantially as described, or the equivalent thereof, for effecting the movement of the joint bars so a sto close their joints by turning the part, fII, down into a horizontal position, such means being the angular teeth or feather, k, of the propin, and the elongated eye of the upper joint rod, I, the whole being as shown in figs. 4 and 5, and as hereimbefore specified, the proppin, gl, being fixed or applied to the part, fII, so as to turn or be movable therewith.

68,905.—Machine For Cleaning Hemp, Ramie, etc.—R. Roez, Santo-Comapam, Mexico.

18t, I claim the alternate concave and convex metallic curved table edges, B and C, onstructed and applied substantially as and for the purposes set forth.

B and C, constructed and applied substantially as and 10 the purposes of forth.

2d, The manner of securing the removable table edges, B and C, whereby they are made rigid or immovable when the machine is in operation.

3d, The revolving cylinder, A, armed with knives projecting from its perimeter for breaking up and extracting the wood, etc., from the fiber of ramie and other like plants, in combination with the removable table edges, applied and operating substantially as described.

4th, The method or process, herein described, of extracting the fiber from ramie and other like plants, consisting in first subjecting the plants of the action of the machine herein described, then soaking them in water, again subjecting them to the action of the machine herein described and finally placing them in a hot solution, as described.

hot solution, as described. 68,906.—An MAL TETHER.—Walter S. Sargent and Frederick Flanders, Franklin, N. H.

Flanders, Franklin, N. H.

Veclaim the combination of the cylinder, E, and piston, d, with the base block, A, standard, B, socket, C, and tethering pole, D, substantially as de-

68,907.—Brick Machine.—Henry C. Sargeant, Columbus, O. 1st, I claim raising the followers so as to press a portion of the clay in the mold, and the expelling of the surplus from the mold, in the manner and for the purpose specified.

2d, I claim regulating the pressure by means of the sliding plate, as shown and described.

and described.

3d. I claim regulating the thickness of the brick by raising or lowering a section of a continuous track by means of wedges and screw, or their equivalents, as shown and described.

4th, I claim the construction of a propeller that the receiving and the dis charging edges will operate on the clay, as shown and described and for the purpose specified.

63,908.—MANUFACTURE OF ICE, ETC. — Daniel E. Somes,

Washington, D. C.
1st, I claim cooling and refrigerating and warming, substantially as herein lescribed.

described.

2d. The process of cooling and warming, as herein described, consisting in forcing or drawing spray into a vacuum, or partial vacuum, substantially as seffection.

3d. Cooling, condensing, heating, and refrigerating by means of the apparatus, substantially as described.

4th, The apparatus, herein described, constituting a vacuum, and devices for producing's pray, substantially as set forth.

5th, A fly wheel, or balance wheel, revolving in a vacuum or partial vacuum.

5th, A fly wheel, or balance wheel, revolving in a vacuum or partial vacuum.
68,909.—DERRICK.—A. B. Sprout, Picture Rocks, Pa.
First, I claim a terrick provided with a pivoted shaft, F, made operative through the medium of the rope, n, substantially as herein described, and for the purpose set forth.
2d, in combination with the above, the pulleys, P and i, and guide, g, constructed, arranged, and operating substantially as herein described and for the purpose set forth.
3d, The combination of the weight, m, pulley, E, and rope, X, with the pivoted shaft, F, constructed, arranged, and operating substantially in the manner herein describes, and for the purpose set forth.
68,910.—CULTIVATOR.—Eliza Stafford, Decatur, Ill., administratrix of the estate of D. S. Stafford, deceased, assignor to herself, Sullyan Burgess, and Joseph Stafford. Antedated Ang. 20, 1867.
1 claim the pivoted curved plow standards, H, connected by the chains, J, substantially as and for the purpose specified.
68,911.—INSTRUMENT FOR MEASURING LUMBER.—Thomas B.
Stevenson, Dayton, Onio.

Stevenson, Dayton, Ohio.

1st, I claim registering the quantity of material measured by a traversing rotary wheel, upon rotary and fixed dials, by an organization of mechanism, substantially as described.

2d. The combination of the shipping mechanism with an adjustable series of different sized pinons for changing speed, substantially as specified.

3d. The combination of the adjusting screw, H, arm, K, retracting spring, 14, and segmental notched plate, N, or their equivalents, operating conjointly in the manner and for the purpose described.

4th, The measuring wheel, A, in combination with the thumb spring, m, and detent, q, operating in the manner and for the purpose specified.

5th, The disk, S, in combination with arm, a, and rotary dails, R T I'I', for recording the quantity measured, substantially as described.

6th, The shipping and adjustable mechanism represented in figures 6 and 7, in combination with the recording mechanism represented in figures 2 and 3, operating in the manner substantially as and for the purpose specified.

68, 912.—BED BOTTOM.—W. Stickney, Lockport, assignor to Sarah E, Stickney, Waterville, N. Y.

I claim a bed bottom consisting of slats, A A, rigidly secured to the hinged sections, B B, in combination with the spiral springs, d d, and vertical guides c c, arranged and operating substantially in the manner described.

68, 912.—MEAD SAURING CAN.—David H. Summer, South Boston, Mass.

68,913. — MEASURING CAN. — David H. Sumner, South Boston, Mass.

Iclaim the duplex measuring can, composed of the two vessels, A B, the orifice, d, and the partitions, Ig, arranged substantially as described, such can being provided with discharging spouts and a handle, as set forth, when such may be essential or necessary thereto.

68,914.—PISTON-PACKING RING.—S. Tucker, Worcester, Mass. Iclaim the improved piston-ring section as turcated and recessed at an near one end and with recesses a tongue, E, and a lapping piece, F, at and nearits end, the whole Scing in manner, substantially as represented in the accompanying trawings and as herein before described.

68,915.—Cooling Ard Purifying Animal Charcoal.—D. H. Turner, New York city.

1st, Iclaim the process, substantially as herein described, of cooling and purify ing animal charcoal, by agitating or giving it a series of successive or repo-ated lifts as it is passed through or along a reticulated cylinder or vessel through which a current of cold or cooling air is made to ascend, essentially as herein set forth.

2d. The combination for the purpose or purposes specified, of a revolving reticulated cylinder or vessel provided with lifting straps or otherwise gould.

as herein set forth.
2d. The combination for the purpose or purposes specified, of a revolving reticulated cylinder or vessel provided with lifting strips or otherwise equivalently constructed, upper trunk or fine for escape of the noxious gases and finer dust, serving also for the establishment of the draft, and suitable delivery shutes or evices for separate discharge of the coal and coarser dust, substantially as described. 68,916.—Spittoon for Railroad Cars.—Benj. Van Deu-

68,916.—SPITTOON FOR KAILROAD CARS.—Benj. Van Deusen, Troy, N. Y.
I claim the combination of a tunnel or open-ended cup, B, with an open-ended spittoon or spout, A, as provided with a movable or swinging cover, and arranged and secured to and in the ear floor in convenient positions to the seats thereof, substantially as and for the purposes herein set forth.

68,917.—DRIVEN PUMPS.—S. Waite, New Belliord, Mass.
1st, I claim the within described perforated drill shaped point or shoe, b, applied to a perforated tube, a, and arranged in connection with a pump, substantially as and for the purposes set forth.

2d, The within described arrangement and combination of the rotating apparatus, the perforated shoe, b, and perforated tube, a, when applied to a pump, all being constructed and operated substantially as and for the purposes set forth.

poses set forth. 68,918.—HAND LOOM.—Chas. Wandel, Milton, Iowa. Ante-

dated Sept. 4, 1867.

I claim the construction and arrangement of the shaft, L, drum, K, arms or pins, J M, ratchet wheel, K2, pawl, R, arm or lever, N, spring, P, treadles, H, and lathe, E, as herein set forth, for the purpose specified. 68,919.—Device for Hitching Horses.—W. G. Ward, Steu-

ben County, N. Y. I claim the combination of the handles, A and B, with the holes, H H, and the bridge, E, all being constructed and arranged substantially as and for the purposes set forth. purposes set forth. 68,920.—ROTARY STEAM ENGINE.—John Q. Welch, Oswego,

lst, I claim the slats, ij, faced with flexible strips, k1, and the moval le slats, m n, fig. 3, constructed and operated as described.

2d, The combination in the pounder, B, of the slats faced with strips, k1, movable slats, m n, hook, w, fig. 3, weigat box, g'f', lever, R, and springs, p r, fig. 2, arranged as and for the purposes set forth.

3d, The combination of the separator, 1 m, fig. 2, with the pounder, B, as and for the purposes described.

68,922.—PERMUTATION LOCK.—Seth Wheeler, Albany, N. Y. List Leving the application to a sliding bolt of the toothed and notched

68,922.— PERMUTATION LOCK.—Seth Wheeler, Albany, N. Y. ist, I caim the application to a sliding bott of the toothed and notched wheels, C. D. having suitable indices applied to their shafts so that said wheels and indices shall move with this b it, substantially as described.

2d. Provising a concentric slot in the toothed wheel or wheels within which the lags, b b in may be received for the purpose of allowing said wheels to be turned when the bolt is unlocked, substantially as described. 3d. The adjustable toothed spiders, F. G., or their quit valents, apolled to the toothed and slotted wheels, C. D. in combination with the lugs, b bl., and devices for innicating the positions of the said slots, i it, in said wheels when in line with said lugs, substantially as described.

68,923.—MODE OF LIGHTING FACTORIES AND OTHER BUILDINGS.—A. J. White, Ballston Spa, N. Y.

108,325.—MODE OF LIGHTING FACTORIES AND OTHER BUILDINGS.—A. J. White, Ballston Spa, N. Y. I claim, in combination with an air dight reservoir and a series of conductions the refrom, with burners attached, the cocks, hand; to operate substantially as and for the purpose described.

68,924.—CARRHAGE SHACKLE.—Levi Wilkinson (assignor to OliverF. Case), New Haven, Conn.

I claim the combination of the detachable block, c, and the bar, b, when the said block itself forms a part of the bearing of the coupling, and when the whole is constructed and arranged so as to operate substantially as and for the purpose, specified.

68,925.—Carriage-curtain Fastener.—Amandus Woeber, Davenport, Iowa.

1st, Iclaim providing a rubber flap, with eyelet hole attached outside and over metallic eyelet, substantially in the manner and for the purpose as here-

1st, Iciaim providing a rubber hap, which you and for the purpose as herein described.
2d, The rubber flap, with hole, as attached and arranged, in combination with metallic eyelet and curtain knob or button, substantially in the manner and for the purpose as herein described.

88,926.—Self-Acting Wagon Brake.—Jas. F. Wood, 2d,

68,926.—Self-acting Wagon Brake.—Jas. f. 1100a, ad, Cohocton, N. Y.

1st, I claim the forked right-angle lever, A, as constructed, and connected, with the tongue, or pole, D, and the rod, Q, to operate the brake bar, N, substantially as and for the purposes set forth.

2d, I claim the slotted metal plate, F, as constructed and attached to the pole, D, by the pin or bolt, C. to prevent the lateral movement of the pole while it allows lite move freely endways.

68.927.—Hammock.—Arthur Woods, Liverpool, Eng.

I claim the hammock, herein described, having the body, a b, of a rectangular section sustained transversely by the cross-places, f. or their equivalents, and supported by the lib ends, c, so as to receive the several strains, and hold in shape the contents of the hammock, all substantially as and for the pur pose set forth.

68.928.—KNITTING-MACHINE REGISTER.—B. F. Wyman, Lan-

possest forth.

68,928.—KNITTING-MACHINE REGISTER.—B. F. Wyman, Lancaster, and B. H. Hartshorn, Ashiand, Mass.

We claim the combination and arrangement of the shaft, i, the worm, i, the dial, r, the hand, s, and the stand, p, substantially as and for the purpose set forth.

dial, r, the hand, s, and the stand, p, substantially as and for the purpose set forth.

68,929.—FILE—Hiram Young, Carey, Ohio.

I claim a single-cut right-and-left wie with the lines of its teeth on both sides of the blade, all inclining in the same direction, substantially in the manner and for the purpose described.

68,930.—WAGON STEP.—William Youngblood, N. Y. city. 1st, I claim the employment of a step or steps, secured upon the axie out side of the wheel or wheels of a wagon, and located immediately over the hub or hubs of said wheels, substantially as and for the purpose herein described.

3d. The construction and arrangement of the step, D, with the nut, C, and guard, E, substantially as and for the purpose set forth.

68,931.—MEASURE FOR LIQUIDS.—J. L. Abbott, North Providence, R. I, assignor to Chas. Fratt, Brooklyn, N. Y.

I claim the arrangement of the measure, A, p.pe. I, two-way cocks, J, tube, K, adjustable bar, D, valve, H, and chamber, C, as and for the purpose specified.

field. 68,932.—SLIDE VALVE.—Thos. Adams and Geo. J. Parsons, No.5 Duke st., Adelphi, Eng. Patented in England Feb. 15, 1866.

I claim the slide valve, constructed in such a manner that, by the aid of a ring or rings, H, providen with a fillet, N, and recess, O, the pressure of the steam on the different parts of the surfaces, will be balanced, all being made and operating as herein shown and described.

68,933.—WINDOW-SASIC STOP. — Jacob K. Andrews, New Providence Pa

08,935.— YIMOW-SAST STOP. — Jacob K. Andrews, New Providence, Pa.
I claim window stops, when made in two parts, and arranged, connected, and operated substantially as described and for the purpose specified, 68,934.—STEAM GENERATOR.—P. Atherton, Philadelphia, Pa. I claim the arrangement of the bell-mounted flues, BCDE F, bearing wall, H, and chambers, J L M, having openings, N O, for the purpose of creating an increased amount of heating surface, as herein shown and described.

scribed. 68,935.—Baling Press.—S. J. Austin, Freeport, Me.

scribed.

88,33.—BALING PRESS.—S. J. Austin, Freeport, Me.

18t, I claim the operating of the side, C. through the medium of the arms, E. applied at one end to the side, C. and having their opposite ends fitted in or between suitable guides with cores or chains, F. attaches, which are connected to a shaft or windlas, G. substantially as shown and described.

2d. Providing one of the journals, o. of the shaft, N, with an external screw thread, p. to work in an internal screw in its bearings, or with an equivalent device to give the shaft, N, a longitudinal movement while being rotated, and thereby keep the chains or cords, m, in line with the arms K K K', substantially as set forth.

3d. The lips, 111', on the bevel block, J, and platform, I, substantially as and for the purpose herein set forth.

4th. The securing of the head block, J, in the framing B, by means of the sovetail cleat, K, on the framing fitting in the doverall groove, J, in the uppers surface of the head block substantially as set forted.

5th. The metal apron, P, attached to the platen, I, substantially as and for the purpose specified.

6th. The door, O, in the side of the press box, A, when used in combination with the sliding or expanding side, U, and the platen, I, arranged substantially as shown and described.

68.936.—APPARATUS FOR ROLLING RAILS.—Hugh Baines, Manchester, Eng.

1 claim the rollers, P Q R and S, in combination with each other, when constructed and arranged together substantially as and for the purpose described.

68,937.—PORTABLE SHEEP SHED.—Wilson M. Baker and

68,937.—PORTABLE SHEEP SHED.—Wilson M. Baker and John Hisner, Urbana, Ohio.

1st, I claim the combination of the overlapping boards, G G G, and catches g2 g3, arranged as described and forming a detachable roof for a portable sheep shed, as set forth.

2d. The arrangement in a portable sheep shed of the pivoted side boards R, and closing bars, S, as and for the purpose explained.

3d. The rack, H, constructed as tertin described, and extending longitudinally throug: the central part of the shed, in combination with the shed substantially as and for the purpose herein set forth.

4th, The combination of the arms, L, cords, M, and shafts, N, with each other and with the teeding troughs, E, and frame of the shed, substantially as herein shown and described, for the purpose set forth.

68,938.—Steam Engine.—Wm. H. Bancroft and Wm. L. Ward, Portland, Wis.

Ward, Portland, Wis.

Ward, Portland, Wis.

We claim the combination of the first cylinder, B, having a central partition, B, and the majn cylinder, C, with the r respective pistons, sain cylinders being constructed as to their ports, and arranged in relation to one another and to said pistons substantially as described.

(8,939.—Tween for Furnaces.—John Bayliss, N. Y. City. I claim the chambered tweer, A, in combination with a water reservoir and air chamber and and suitable water and blast pipes, all constructed and arranged substantially as described.

arranged substantially as described. 68,940.—Fire Extinguisher.—J. F. Boynton, Syracuse, N. Y. arranged substantially as described.

68,940.—Fire Extinguisher.—J. F. Boynton, Syracuse, N.Y.

1st, I claim the method herein described of charging puttable vessels with saline water and compressed air or gas, for use in extinguishing fires, substantially as set forth.

2d, 1 also claim the portable vessel, B, charged with saline water and compressed air or gas, substantially as described, for the purpose of extinguishing fires, as set forth.

3d, 1 also claim, in combination with the cylinder, A, portable receiver, B, the connecting pipes, C and D, cocks, 1, 2, 3, and 4, and any suitable pump for charging said cylinder, A, with compressed air or gas, all constructed and arranged substantially as described.

68,941.—Corn Sheller.—C. H. Brady, Mount Joy, Pa., assignor to himself and Wm. Brady. Antedated Sept. 10, 1867.

1 claim the comb ination of the revolving frame, B, as constructed and provided with the spring plates, H H, with the stationary case, A, provided with spout, a, and projection, b, as and for the purpose set forth.

168,942.—LUBRICATING OIL.—E. L. Brady, New Orleans, La.

1 claim a combination of the various substances, to wit, oil, water, spirits of ammonia, carbonate or soda, quick lime, and supbur, used to make the compound clarified and saponified inb hic ating oil known as Brady's oil.

68,943.—FRUIT BOX.—Israel F. Brown (assignor to E. F. Brown), New London, Conn.

1st, 1 claim the fastening, B, in combination with the bottom, G, and sides, H, as herein et forth, for the purpose specified.

2t, The bottom, G, to the box, applied thereto substantially as and for the purpose described.

68,944.—f'oot Warmer.—N. H. Bruce, Forge Village, West-

ford, Mass.
I claim the construction and arrangement of the perforated case, A, having the sook t, B, lamp, C, hinged casing, D, inclined covered plate, F, with central opening, H, in which are secured the sheet metal plates, I, as herein shown and described, for the purpose specified.

68,945.—WATER WHEEL.—James D. Bryson, Newcastle, Pa.

1st, I claim the combination in a turbine water wheel of the adju table gates or shutes, D, and acjustable buckets or issues, B', whereby the area of the issues may be varied to correspond with the regulated capacity of the injects or shutes.

the issues may be varied to correspond what the regulated capacity of the injets or shutes.

2d, In combination with the above, the slotted adjusting arms, I I, applied so as to open the gates simultaneously and permit them to close independently, so as to prevent the obstruction of one or more gates from interfering with the operation of the remainder.

3d, The combination with the adjustable buckets, B', of the adjusting staff or screw, L L', and swivel, I, hollow slotted spindle, E, jointed arms, N, and ring or collar, M, arranged as described and operating so as to permit the buckets to be adjusted while the wheel is in motion, as set forth.

in motion, as set forth.
68,946.—Fille Cutting Machine.—Edwin Bucklin, Jr., North
Providence, R.I., assignor to Frederick A. Soule, Dixon, Onio.

- 1st, I claim the combination of the bent arm, D, hammer, G, and set screw, 18t, I claim the combination of the searched.
 2d, The combination of the bent hammer, G, provided with downwardly bent arms, GI G2, spring, H, bent arm, I, set screw, H1, having a handle, I1, with the bent arm, D, secured on the adjustable plate, C, substantially as de-
- scribed. 3d, The adjustable hollow block, J. provided with a metal cap. J2, on one side, forming the scaring for the chisel stock, K., andholder, K1, substan taily a described.

 4th. The chisel stock, K, with around top post, k, a shoulder, k2, and hollow three-sided part, k1, in combination with the holding device, K1, sub-

low threesimen part, Ri, in Commons of the Common stantially as described.

5th, The combination of devices substantially as herein described, by which the chisel is elevated and brought down upon the file black previous to the descent of the hammer upon the end of the chisel stock.

6tt, The device for elevating and releasing the chisel and for holding the black upon its bed, consisting of the toothed wheels, Li Mi and M2, lever, I, shoulder, k2, on the chisel stock, K, and springs, n1 and h, and holder, Ki,

shoulder, k2, on the chisel stock, K, and springs, n1 and h, and holder, K1, substitutially as described.

7th, The device for operating the feed screw, consisting of the tappet, O2, adjustable silde, a projection, a1, on the square rod, a2, pin, b1, inclined slot, b2, in the loose plate, b2, pawl, c2 and c5, and ratchet wheel, c1, secured to the slaft, c, substantially as described.

8th, The device for moving the file bed, consisting of the handle, c2, on shaft, d, provided with the square part, e1, set screw c2, lugs, i1, pivoted arm, f, one end of which is provided with a cap, f2, having a female screw thread on its inner face, the other end being forked and holding the pivoted swinging piece, f3, substantially as described.

68,947.—Door and Blind Fastening.—Daniel Bull, Ambov, III.

boy, III.

let, I claim the construction of the spring door fastening for the purpose described, with the self adjusting latching nose having a lip or locking projection formed on it, substantially as described.

2d, The spring door fastening for double doors, which, when both doors are shut, will be locked and held firmlyin place by one of the doors, substantially as described.

as described. 68,948.—Table Attachment for Bedsteads.—Daniel Bull.

68,948.—TABLE ATTACHMENT FOR DELECTION.

Amboy, Il.

1st, I claim the combination of an adjustable table, B, with a swinging support, A, constructed and adapted to operate substantially as and for the purposes described.

2d, Pivoting the table, B. to the bar, c, of the support, A, so that said table can be adjusted and set in a horizontal plane, and also inclined at pleasnre, substantially as described.

3d, in combination with the support, A, constructed as described, I claim the pivoting of the table, B, to a pivored bar, g, at one end, and to the curved portion, b, at the other end, substantially as described.

20 040 — Machine for Rounding Fly Net Straps.—C. K.

the pivotting of the table, B. to a pivored bar, g., at one end, and to the curved portion, b, at the other end, substantially as described.

68,949.—MACHINE FOR ROUNDING FLY NET STRAPS.—C. K. Burkholder and Henry Lerew, YorkSprings, Pa. We claim the combination of the nother & knives, D J, and guides, E I, arranged and obserbing substantially as described.

68,950.—HORSE RAKE.—George E. Burt, Harvard, Mass. 1st, I claim in combination with the teeth, m, axie, O, and arm, J, a tought joint formed by the levers C and B, acted upon by the weight of the driver riding upon a seat resting upon the joint in such manner that as the teeth are drawn back the toggie joint shall be straightened and the weight of the driver be made to act upon the teeth, a correspondingly increased downward pressure, substantially as set forth.

24. The combination of the shafts, D, arm, F, levers, HE B and C, arm, J, and axie, O, substantially as set torth.

3d, The combination of the teeth, m, the axie, O, and clamp, I, when respectively constructed and arranged substantially as set forth.

4th, The combination of the shafts, D, arm, F, axie, O, and teeth, m, substantially as set forth.

5th, The arm, J, on one side of the axie, in combination with the arm, F, on the other side thereof, when connected with the shafts, D, one directly and the draft upon one and pressure against the other arm shall unite to turn the axie toward and hold down the teeth, substantially as set forth.

68,951.—CARRIAGE ATTACHMENT.—George J. Capewell, West

68,951.—CARRIAGE ATTACHMENT.—George J. Capewell, West Cheshire. Conn.

58, 951.—CARRIAGE ATTACHMENT.—George J. Capewell, West Cheshire, Conn.

I claim, 1st, A holder or plate, B. for the fender rollers, A, made of such a form as to act as a step to the wagon or other vehicle, substantially as described.

2t, Securing the fender roller holders, B, to the vehicle, in such manner that the rollers can be adjusted without detaching the holders, substantially as described, for the propose specified.

3d, The washers, F, at the ends of the rollers, A, for the purpose described.

68,952.—COMPOSITION FOR IMITATION WOOD.—Henry Carter,

Taunton, Mass.
I claim, ist, Making imitation wood by combining saw dust and glue, substantially as herein shown and described.
2d, The above in combination with metal dust and shaving, substantially therein shown and described.

claim the pipe, A, with supplemental chamber, a, outlet pipe, B, tube, C, h mouth piece and valve, g, when arranged and operating in the manner stantially as and for the purposes specified.

lly as and for the purposes specified.
MANUFACTURE OF MAGNESIUM.—John O. Christian,
ester, Eng., and John and Henry Charlton, Strangeways, Eng. An

Manchester, Fig., and John and Henry Charlton, Strangeways, Eng. Antedated Sept. 15, 1268.

We claim, 1st, Producing sulphate of magnesia or other salts of magnesia during the process of generating carbonic acid gas, or of distilling tar water, or of manufacturing ammonia or its salts, substantially as herein set forth. 2d, Treating Dolomite or other magnesian compounds with sulphureted hydrogen, substantially as and for the purpose degerated.

68, 956.—ATTACHING DOOR KNOBS.—I). B. Cobb, Jersey

City, N. J.
I claim the metallic shank, B, provided with the socket, C, in connection ith the nut, E, or its equivalent, and the knob, D, all arranged substantially the manner as and for the purpose set forth.

8,957.—HORSE POWER.—S. Coin, Cazenovia, N. Y.
I claim the flange, C to the horn wheel, A, substantially as and for the tropse described.
I also claim the links, F, constructed substantially as and for the purpose

68,958.—Combined Hoe and Rake.—Isaac Cook, Haynes-68,958.—Combined Hoe and Rake.—isaac cook, hay now yile, Mo.
I claim the cap, a, secured by the screw bolt, b, to the handle, A, through the side strips, a' a', for attaching a hoe and rake together or separately with the screw bolt, c', and the pins, d, knowshill a'y as herein described.
68,959.—Adjustable Track for Conveying Loads by Gravity Only.—A. W. Cramer (assignor to himselfand Wm. D. Brooks), Beth any, Pa.
I claim.ist. the track, H, in combination with the track, B, formed by a wire or rope adjustably suspended at one end, that its inclination may be reversed, all betartially in the manner set form.
2d, The combination of the track, B, formed by a wire or rope, the sheave, C, axle, D, eye, F, and cord, a, arranged to reverse the inclination of the track, B, sostantially as described.
68, 960.—Priming Metallic Cartridges.—James F. Crans-

track, substantially as described.

38,960.—PRIMING METALLIC CARTRIDGES.—James F. Cranston, Springfield, Mass.

1 claim a centerfice cartridge in which the anvil is constructed with a square face. A, and spring braces, C.C., fastened in by the flange or groove, e.e., and bridging over the cavity, b, in such a manner as to form the openings 1,6 g, b, substantially as set forth.

a fg h, substantially as set forth, 68,961.—ADJUSTABLE SPIRIT LEVEL.—L. L. Davis, Spring. field, Mass.

st, I claim the semi-circular bubble case, c, when constructed or cast in e piece, and having the aperture or space, l, for the insertion of the bubble iss, k, and the space, c', substantially as herein described and set forth.

d, The ring, C, having a dovetail flange around its periphery and working the dovetail socket, A', when made substantially as herein described and

geforth.

3d. The ring, C, in combination with the dovetail Focket, A', the set screw 3th. The ring, C, in combination with the dovetail Focket, A', the set screw is the ring of the ring

and set 107th. —Sheet Metal Pan Former.—W. H. Davis and R. H. Wagon, Dowagiac, Mich. 18. We claim the lever, H. brace, D. shaft, I. former, F. and guide rods, P. In combination with the box, A, as described and for the purposes set

forth.
2d, The arms, MM, rod, L, and spring, a, in combination with the box, A as described and for the purposes specified.
68,963.—BALANCING MILL STONES.—Ephraim and Zedakiah

Dawson and Brice Hilton, Bruncrsburg, Ohio.
We claim the above described arrangement of the balances, B, and, D, and the horizontal and perpendicular adjustment thereof as and for the purposes hereis set forth.

herein set forth.

68,964.—Botler Feeder.—Henry O. Demarest, N. Y. City.

1st, I claim the arrangement of the lever, D, heads, E E', and washer, e',
substantially upon the principle and in the manner herein set forth.

2d. The arrangement of the cnambers, A and A', lever, D, heads. E E' and
E', nut, e, screws and washer, e', discharge pipe steam pipe, C, and the injection pipe, B, constructed and combined substantially as herein above set

forth. 68,965.—Manger.—Frederick Dengler, and Jacob Miller,

58,965.—MANGER.—Frederick Dengler, and Jacob Miller, Brooklyn, N. Y.

1st, We claim connecting the trap doors ofmangers, feed boxes or troughs with clock-work in such a manner that the said doors can be simultaneously opened at any desired time substantially as and for the purpose hereinshown and described.

2d, The disk, i, on the arbor of the clock-work, C, in combination withithe lever, D k I and F, the latter being connected with the door or doors of the mangers, troughs or feed boxes substantially in the manner herein shown and described.

described.

3d. The hinged bottom, r. of the feed box, H. in combination with the catch s, and swinging hook, t, the latter being connected with the clock-work, C, substantially as herein shown and described.

4th. The weighted cover, a, of the trough or manger, A, in combination with the catch lever, B, which is connected with the clock-work, C, substantially as and for the purpose herein shown and described.

68,966.—Carriage Springs.—Thomas De Witt, Detroit, Mich. I claim a carriage spring composed of the parts, B B C, connected together and used in connection with the studs, d d. arranged in relation with said parts substantially as herein shown and described.

68,967.—Spring for Fastening Blind Slats.—George H. Dimond, Bridgeport, Conn.
I claim a slotted concavo-convex discoidal shaped spring constructed sub-

stantially as described for the purpose of locking turning slats in position as 68,968.—ICE CREAM FREEZER.—Francis H. Duc, Charleston,

S. C.

1st., I claim the revolving cylinder, D, when provided with the removable head, E, shaft, F, and wing, G, on the latter, the said shaft and wing serving as an indicator for ascertaining the state of the contents, substantially as herein shown and described.

2d, The shove in combination with the box, A, having a hinged cover, C, In which another central cover, K, is arranged, substantially as and for the purpose herein shown and described.

68,969.—HAND LOOMS.—Thomas A. Dugdale, Richmond, Ind. Antedated Sept. 7th, 1867.

1st. I claim the wheel, K, for operating the picking and harness mechanism the said wheel being formed of the flanges, U U V V, and ratchets. T.

2d, The combination of the wheel, K, hook, L, and pieces. M M, with the lay, B.

lay T.

3d. The combination of the wheel, K, and sliding pieces, PP, and shafts, A2 and A5, and springs, SS, when arranged constructed and operated substantially as and for the purposes described.

68,970.—CARRIAGE JACK.—Joseph F. Emmert, Quincy, Pa.

oc, 970.—CARRIAGE JACK.—JOSEPH F. EHIHIER, QHINCY, Fall I claim the construction and arrangement of the slotted stand, A, in which the toothed sliding lift bar, B, provided with the slide piece, D, works the lever, C, pivoted to the lug, h, at the bottom of the standard, A, and to the lower end of the link, d, whose upper end is pivoted to the lug, e, of the left bar, B, working in the slot, g, of standard, A, substantially as described for the purpose specified.

68,971.—Garden Tile for Bordering.—F. B. Fancher,

68,971.—GARDEN TILE FOR BORDERING.—F. B. Fancher, Lansingburg, N. Y. Iclaim constructing garden tile for borders with right angled wings united by lap joints or tongue and groove substantially as and for the purpose hereinshown and described.
68,972.—DEVICE FOR ROUNDING LINES.—L. B. Gates, Bane Center, N. Y. I claim the spring, H. H., in the frame, A., for securing the swinging frame, D, when constructed with its rollers, G and J, and combined with the roller, E, the whole operating in the manner and for the purposes speanted.
68,973.—CHAIR LOUNGE AND STEP LADDER.—Joseph Gerdon, Jr. West Albany N. Y.

Jr., West Albany, N. Y.
I claim, in the chair and step ladder combined as described, the arrangement of the additional piece, h', with its leg, h'', forming a lounge, and the fastening wires. I is abstantially as described, for the purpose specified.

68,974—STILL FOR REFINING AND DISTILLING OILS.—Sample Chibons, Ringhampton, N. Y.

68,974.—STILL FOR KEFINING AND DISTILLING CILS.—Gallinel Gibbons, Binghampton, N. Y.

I claim, 1st, The still or retort, A, in combination with the chambers, B B, constructed and arranged in the manner and for the purpose set forth.

2d. The use of the pipe, C, provided with a series of cross pipe so or their equivalents in combination with the still A, as and for the purpose set forth.

3d. The arrangement of the pipe, D, chambers, B B, and still, A, with the steam pipe constructed and used as and for the purpose specified.

68,976.—Dittening Machine.—Alford Gifford and Isaac Seright. Milroy, Ind.

We claim the arrangement of the knife, K, wheel, C, its circular knife scraper, b, and horizon tal adjustable frame, regulated by the screws, g g, and provided with the plate, D, when used in the manner and for the purpose bergit specified.

68,976.—PORTABLE FIELD FENCE.—E. C. Goddard (assignor to himselfand A. Bailey), Unionville, Ohio.

I claim the herein described construction and arrangement of fence to form water locking sections, straight and irregular lines and gate ways, by the combination of the oblique slats, C C, with interlocking panels, A' B', and posts, conjointly.

68,977.—Dumping Cart.—N. W. Godfrey, Locust Val., N.Y. I claim a cart or wagon having its bottom made in sections, and hung the eto with the rod or equivalent, to which each section is connected, in combination with the screen, e frame, when all constructed and arranged together, substantially as and for the purpose described.

68,978.—ORE CONCENTRATOR.—Lewis Goodwin, and S. A.

68,978.—ORE CONCENTRATOR.—Lewis Goodwin, and S. A.

West, Sar Francisco, Cal.

1st. I claim the concave rotary pan, AA, with circular riffles, g g g g g g, having an elevation toward the periphery of the pan, substantially as and for the purposes described.

2d, The discharge box, E, receiving the discharge at the periphery, and discharging toward the center, having teet nor agitators attached to it for operating in the riffles and movable bar, L, to act on the pulp, and water, and the gate, F, for cunting off the discharge, substantially as described.

8d, The plow, O, valve, 4, spring, 5, cams, K and J, or their equivalents, substantially as described, for the purpose set forth.

4th, The stationary circular troughs, R, for receiving the sand and debris, and G, for receiving the subpluments and the scrapers, N, attached to the rotary pan, and working within the tronghs, R and G, substantially as described.

5th, We claim the above described parts, when employed separately or in combination for the approach. d.

We claim the above described parts, when employed separately or in ination, for the purposes specified.

5th, We claim the above described parts, when employed separately of incombination, for the purposes specified.

68,979.—BAROMETRIC VACUUM EXHAUSTER.—James Gordon, and John Archbald, San Francisco, Cal.
We claim the combination of the closed water-purifying and supply cistern, H. with one or more expanding chambers, A.A. which are combined with one or more tubes or barometric columns, B. B. all substantially in the manner herein represented and described.

manary herein represented and described.

88.980.—Construction of Carriage Bodies.—Simon P.
Graham, Richland Center, Ind.
I claim a carriage body made of sheet metal, formed in parts or sections connected together in the manner shown and described, as a new article of

connected together in the manner shown and described, as a new article of manufacture.

68,981.—Washing Machine.—D. Hanna, Hornellsville, N.Y. I claim the cylinder, B. covered with slats, e.e.e., constructed in the manner described, when combined with a movable head, or follower, D., and an adjustable screw, F. but journal, F. thumbscrew, I, and operated by a crank, c. in the manner herein described, for the purposes set for th.

68,982.—Shoved Plow.—W. R. Harmon, Union Port, Ohio. 1st. I claim the combination of the shoe, E, and shovel, F, when the same are so arrang ed that the shoe, E, presents its entire face to the ground, and projects sufficiently far beyond the point of the shovel, not only to protect and guard the same, but also to free the shovel from all labor and strain in opening the furrow, substantially as shown.

2d, I claim the combination of the rods, C., guide plate, D, and bolt, c, for regulating the depth of cut of shoe, substantially as described.

3d, I claim the arrangement of the rods, C. guide plate, D, and bolt, C, so that the same can be applied to a single or double plow, substantially as described.

4th, I claim the combination of the curved beam, A, shoe, E, and shoyel, F,

ather was no can be applied to a single or double plow, substantially as described.

4th, I claim the combination of the curved beam, A, shoe, E, and shovel, F, when the same are constructed and arranged substantially as described. 5th, I claim the combination of the beam. A, shoe, E, shovel, F, rods, CC, and guide plate, D, when the same are arranged and operated substantially as described, and for the purpose set forth.

6th, I claim the self-adjusting clevi, C, curved to the rods, CC, substantially as described, and for the purpose set forth.

68,983.—WAGON.—L. D. Harvey, Harvey, Mich.
I claim making the tongue hounds, A A, with the cross bar, a, and tubular head, h, all out of one solid piece, substantially as and for the purpose described.

68,984.—Egg CUP AND TONGS.—C. Hellen, Washington, D.C. I claim the adjustable metallic egg cup, A, with its spring point, B, and base, C, combined with the tongs, D, as herein described, and for the purposes set forth. 68,985.—CUPPING APPARATUS.—W. D. Hooper, Liberty, Va.

OU. JOURING METAKATUS.— W. D. HOODER, LIDERTY, V8. 18t, I claim cupping device, having a series of tubular blades arranged to operate substantially as shown and described.

2d, In combination with the cup, A, I claim the detachable mouthpiece, E, having holes for the blades to operate through as set forth.

3d, The combination of the mouthpiece, E, plate, D, having the blades, f, attached thereto, and screw, b, when arranged for joint operation as describe.

scribe... 68,986.—Brick and Tile Machine.—James Hotchkiss, and

68,986.—BRICK AND TILE MACHINE.—James Hotchkiss, and Ezra Buss, Springfield, Ohio.

We claim the extension of the png-mill shaft, C, down through the plinger box, and providing it with a crank, 6, or its equivalent, below, so astodrive the plunger thereof, substantially as herein specified.

We also claim solid division strip, Q, separating the plunger box into two compartments, MM, and in connection therewith, the division of the plunger, L, into two parts, striding the said division strip, and the png-mill shaft, substantially as herein set forth.

We also claim the extended plunger beam, 1, and connecting rod.H, pivoted to the outer end of the said plunger beam, arranged and operating together substantially as and tor the purpose herein specified.

68,987.—APPARATUS FOR HEATING WATER AND GENERATING STEAM.—Henry Howard, Springfield, Mass.

68,987.—APPARATUS FOR HEATING WATER AND GENERALING STEAM.—Henry Howard, Springfield, Mass.

1st, I claim an apparatus for heating water or generating steam, consisting of one or more double tubes, A and B, constructed as described, and combined with a water reservoir, substantially as and for the purpose set forth.

2d, Arranging these tubes in such a manner as to form a grate and fire box, and fines, for the passage of the flaures and heated air.

68,988.—REIN HOLDER.—T. A. Huffer, Indianapolis, Ind.

I claim the combination of the plate, A, interlocking springs, a a aa, or their equivalent, and the serews, b b, in the manner substantially as and for the purpose herein set forth.

68.989.—Engine Piston.—Nathan Hunt, Salem, Ohio. Octoon—Engine I ISTON.—Nathail Intil, Salell, Olifo.

I claim the construction and arrangement of the Lebaped packing rings, D, whose inner projections rest against each other, and are inserted in the space between the piston head A, and follower, C, holding the packing rings, E, in position, said piston head and follower provided with inclined presses, e, upon their peripheries, to admit the steam behind the rings, B and E, alternately, at each upward and downward stroke of the piston, as herein shown and described.

88 990 — CHECH HOOK — I H. Jones Williamsport Pa

snown and described. 68,990.—CHECK HOOK.—J. H. Jones, Williamsport, Pa.

object. Hour.—J. H. Johns, Williamsport, Fa. I claim the smooth, concave roller, C, placed upon two floors, A, with its screw, B, in the manner herein described, and for the purposes set forth. 68,991.—Fence.—Daniel Kaufman, Boiling Springs, Pa. I claim the shoes, D, constructed substantially as herein shown and described, in combination with the lower ends of the inclined braces or supports. B, as and for the purpose set forth. 68,992.—Hoisting Apparatus.—G. B. Keeler, Port Chester,

68,992.—HOISTING APPARATUS.—G. D. ACCASA, Y. N. Y. I claim the combination of the shafts, D and F, having drums, pulleys, and pinlons, and constructed substantially as and for the purpose described.
68,993.—HOSE COUPLING.—John Kerns, N. Y. city.
1st, I claim the combination of the tube, A, juws, a a, with hooks, b b, springs, d, tube, B, with shoulders, c, as and for the purpose specified.
2d, The jaws, a a, on the tube, A, provided with hooks, b b, fitting into a groowe in the tube, D, and forced together by a spring or springs, d, arranged between the jaws, a a, and tube, A, as herein shown and described.
68,994.—MECHANISM FOR OPERATING THE VALVES OF FORCE

Pumps.—John C. King, (asssignor to himself and George M. Woodward), New York city.
I claim the rods, J. J. by which the cylinders, H.H., are connected, in combination with the cross bar, K. rock shaft, M. oscillating bar, L. box, g. h.i, and crank shaft, N, all made and operating substantially as and for the purpose herein shown and described.

88,995.—INJECTOR FOR INSECT POWDER.—M. Koppe, N.Y.c'y. I claim an injector for insect powder, composed of a versel, A, with elastic diaphragm, c, spont, b, spring, d, and thumb plece, e, substantially as and for the purposes set forth.

disphragm, c, spont, b, spring, d, and thumb piece, e, substantially as and for the purpose set forth.

68,996.—GRAIN DRILL.—Elijah Lake, Davisburg, Mich.

1st, I claim providing the drill teeth, L, with wings, P, substantially as and for the purpose set forth.

2d, The use of a series of rollers, C C, in combination with the winged drill teeth for packing the earth after the wings, substantially as set forth.

3d, The arrangement of the collar, R, tipon the shaft, B, with the wheel, D, and lever, q, whereby the seed shafts are thrown in and out of gear, as and for the purpose set forth.

68,997.—RAILROAD STATION INDICATOR.—George T. Lape, Summit N.Y. assignor to himself and Jepthah Leathe, New York city.

Summit, N.Y., assignor to himself and lepthal Leathe, New York city.

1st, I claim the slides, de, attached to the india rubber apringe, ce, in cominto with the apron, B, arranged and operating substantially as and for he purpose specified.

the purpose specified.

2d. The arrangement of the polygonal disk, C, spiral springs, s s', tubes, p p', chains, q q, rock wheel, E, cam, L, and apron, B, as and for the purpose specified. 68,998.—Chuck for Watchmakers' Lathes.—S. S. Lavey,

Plymouth, Ind.

I claim the combination of the movable chuck, H, with its slides, J J, disc, F, and hollow head. composed of cups, C and D, and spring, e, constructed and used as herein set forth.

and used as herein set forth.

68,999.—Mode of Securing Felly Joints.—James W. Lawrence (assignor to Brewster & Co.), New York city.

Lawrence (assignor to Brewster & Co.), New York city.

1 claim the Theaded both, e, constructed as described, for securing felloe foliats, laterally and radially substantially as and for the purposes herein de-69,000.—Submarine Plow.—E. T. Ligon, Demopolis, Ala.

I claim a submarine plow, constructed and operating substantially as shown and described.

69,001.— UNITING STEEL OR IRON WITH COPPER.—E. T.

Ligon, Demopolis, Ala.

Ligon, Demopolis, Ala.

69,002.—SPINNING MACHINE.—John Lazier, Bellville, Canada.

69,002.—SPINNING MACHINE.—John Lazier, Bellville, Canada.

1st, I claim mounting the carriage, M, on three wheels, arranged to run on the rails, C and C, substantially as shown and described.

2d, I claim providing the spinning frame with a register for determining the number of twists when said register is arranged to re-set itself automatically as the carriage is run forward, substantially as set forth.

3d, I claim arranging the mechanism herein described that feeds the roving or sliver in combination with the carriage in such a manner that as the latterils run back the former will be automatically thrown out of operation, substantially as described.

4th, I claim so arranging the devices herein described for throwing the feeding mechanism out of gear that they may be adjusted to stop the feeding sooner or later, substantially as described.

5th, The spiral springs, e, arranged to operate upon the pressure rolls, b, as described.

6th, I claim providing the feeding frame with the reel, G, and the two series of eyes, m and n, when arranged 1or joint action, substantially as described.

osciles of eyes, m and n, when arranged tor joint action, substantially as described.

7th, I claim operating the feeding mechanism by means of its being so connected with the carriage that the moving of the carriage shall set it in motion by the unwinding of the cord, p, from the pulleys, R, said pulleys being rotated in the opposite direction by means of the weight, I, or its equivalent, when the carriage is returned, substantially as described.

69,003.—CULTIVATOR,—I. B. Mahon, Dunkirk, Ohio.

1st, I claim constructing the metallic frame of the machine in two parts, C C', connected together and braced, in the manner substantially as \$\frac{1}{2}\$cov and described.

2d, Suspending the frame to the axle, A, by clips, D, arranged in connection with the braces, E, and the pendants, J, to which the outer plow beams are attached, all being arranged substantially as and for the propose specified.

3d. The doubletree, U, pivoted to the strat pole, T, in connection with the whiffletrees, V V, pivoted to the frame of the machine and connected to the ends of the doubletree oy links, r, all arranged substantially as set forth.

4th, The attaching of the inner plow beams, J J, to the front of the frame by means of universal joints, e, e, substantially as described.

5th, The fender bars, L L, connected with the inner plow beams, J J, and universal joints, e, and arranged in the manner shown so that the fenders, M, may be set at any desired hight and at a greater or less distance from the plows and have an independent up and down motion and at the same time retain their rel attive position with the plows, substantially as shown and described.

6th, The open or skeleton fenders, M, when applied to the fender bars, L L, of the fe

retain their relative position with the plows, substantially as shown and described.

6th, The open or skeleton fenders, M, when applied to the fender bars, L L, so as to admit of being adjusted further forward or backward on said bars, substantially as and for the purpose specified.

7th, The pulleys or segments, c. on the shaft. I, connected by chains, d, to the plow beams, J J K K, in combination with the lever, S, connected by a forthe purpose specified.

Sth, The guides, G G, on the shaft, I, all being arranged substantially as and for the purpose specified.

Sth, The guides, G G, on the shaft, F, in connection with the uprights, N, passing through said guides and the stirrups, O, attached to said uprights, all arranged to operate substantially as described.

9th, The fixed guides, R, attached to the frame of the machine with the uprights, Q, of the outer beams, K, passing through the same, substantially as and for the purpose set forth.

69,004.—Fingers for Lifting Lodged Grain.—Samuel Manning, San José, Cal.

Manning, San José, Cal. I Claim the spring, A, bars, C and G, with the joint, D, and link, B, all aranged and applied to operate in the manner substantially as and for the purpose herein set forth.

pose herein set forth.
69,005.—I'OTATO DIGGER.—Albert Marcellus, Pittsford, N. Y.
1st, Iclaim the arrangement of the nose plate, P, with its dividing lines
vertical or nearly so and rounded, substantially in the manner and for the
purposes herein shown and described.
24. The arrangement of the wings, w and w', in combination with the uprights, S, to which they are connected suitably, as and for the purposes here-

rights, S, to which they are connected suitably, as and for the paragraph in specified.

3d. The detachable mold boards, B B', in combination with the nose plate, P, and the wings, w and w', when the said boards are arranged with their faces or flat sides vertical or nearly so, as shown.

4th, Hunging the shakers, G and G', to the mold boards, substantially as described and vibrating them vertically, for the purposes s 4 forth.

5th, The arrangement of the toothed upright, S, and toothed headed lever, T, with the friction roller, r, ratchet d, and its lever, f, substantially as shown and described for the purpose of gaging and adjusting the elevation of the roller. plow. "Piok" the detachable point, p, constructed and connected substantially in the manner and for the purposes herein shown and described. 69,006.—SOFA AND BED BOTTOM.—Casper Martino, Trenton,

N. J.

1st, I claim securing one or both the ends of the spiral springs, B, in proper position by metallic straps, C, having loops strack up out of their solid bodies for the reception of the end coil of the springs, substantially as herein shown and described and for the purpose set forth.

2d, The combination of the ratchets, F, pawls, E, rod, G, and spring, H, with the movable part, D, and with the frame, A, substantially as herein shown and described and tor the purpose set forth.

3d, Securing the back, I, to the movable part, D, and to the frame, A, substantially in the manner herein shown and described.

69,007.—LIQUID AND GAS METERS.—Joshua Mason, Paterson,

69,007.—LIQUID AND GAS METERS.—JOSHUA MASON, Paterson, N.J.

Ist, I claim the sliding valve, E, composed of the circular disks, b b', and the perforated plate, F, and fitted within the circular chamber, D, provided with ports, d d' d', extending circumferential, all around the interior of the chamber and placed or arranged in relation with the supply and discharge vipes, G I, passage. H, extension chamber, C, and cylinder, A, to operate in the manner substactially as and for the purpose ses forth.

2d, The operating of the valve, E, from the plunger, B, through the medium of the rods, K, plates, L, rod, M, segment, N, pinion, O, and spring, S, connected with the crank, k, of the shaft of the pinion, O, and spring, S, stantially as shown and described.

3d, The combination and arrangement of the rods, K, screw nut, g, plates, L, rod, M, and bar, J, as herein described for the purpose specified.

4th, The combination and arrangement of the clutch consisting of the fixed pin, a*, in the shaft of the pinion, O, and the slot, b*, in said pinion with the crank, h, spring, S, slotted segment, N, and plunger, B, as herein described for the purpose specified.

for the partness: specified.

(69),008.—Brish.—Francis McLaughlin, Boston, Mass.

Telaim a brush made with a ferrule of vulcanized rubber or its compounds.

69,009.—MECHANICAL MOVEMENT.—Wm. S. Mead. N. Y. Citv. I claim the combination and arrangement of the wheel, C frame, A, handles, D, rocking arms, G, fly wheel, or other requirelect body, I, links, b, pitman rods, d, pendulum frame, J, and saws, K, all constructed and operating substantially as and for the purpose described.

69,010.—Weather Strip for Doors.—J. H. Miller, Milwankee, Wis.
I claim the combination of the weather strip, D, hung to a swingling door plate, H, springhinge. E, and projecting plate, L, of the door jamb, substantially as and for the purpose neserfood.

69,011.—COMBINED RAKE AND SPADE.—W. H. Miller, Brand-

enburg, Ky.
1st, I claim the handle fastened to frame, E, carrying times, substantially

as described.

2d, I also claim the triangular tines, A, in cross section, substantially as and for the purpose specified.
69.012.—Three wheeled Vehicle.—John W. Minor and

59,012.—THREE-WHEELED VEHICLE.—John W. Minor and David P. Ward, New Bedford, Mass.

1st, W. claim the sections of cylinders, C and E, one revolving within the other, substantially as and for the purposes herein shown and described.

2d, We claim the flange, P. projecting from the rim of the cylinder for fastening on the outside and forming a lip on its inner side, substantially as described.

3d, We claim the wheel, F, attached to a three-wheeled vehicle when the said wheel is attached to a horizontal section of a cylinder which has free horizontal motion, substantially as described.

69,013.—Apparatus for Drawing and Preserving Malt

69,013.—APPARATUS FOR DRAWING AND FRESERVING MALT LIQUORS.—Henry Mittendorf, York, Pa. 1st, I claim the herein-described mode of drawing and preserving malt liquors, cider, etc., by means of an air reservoir, Educated Alyas set forth. 2st, The apparatus for drawing and preserving malt liquors, cider, etc., consisting of the air reservoir, B. air pump, C. pipes, a band d, provided with stopocoks, c and e, substantially as isseribed.
69,014.—Tube Expander.—E. J. Moore, East Boston, Mass. I claim the construction of the expanding rollers, C, provided with beads

© 1867 SCIENTIFIC AMERICAN, INC

surrounding their peripheries the lower one of less diameter than the upper substantially as described for the purpose specified.
69,015.—TRUSS.—F. W. Neubert, Pittsburg, Pa.
1st, I claim the pad. C, wher made in the shape herein shown and described and for the purposes set forth.
2d, The trussstraps, D and E, when covered with india-rubber cloth, substantially as described for the purpose specified.
3d, In combination with the truss strap, E, covered with india-rubber cloth, I claim the elastic portion, g, substantially as described for the purpose specified.

cloth I claim the elastic portion, z, substantially as described for the purpose specified.

4th, The double straps, D and e, at the end of A, in combination with the knob, a, on pad, C, and with the knob, i, on spring, A, as set forth.

5th, The strap, E, in combination with the loops, h, h, and knob, a, on the pad, C, all made and operating substantially as herein shown and described.

69.016.—CURRY COMBS.—E. M. Noyes, Binghamton, N.Y.

I claim the construction and use of the non-metallic teeth, A A, attached to the metallic casing, B, in combination with the curry comb on back, C, substantially as and for the purpose herein set forth.

69.017.—Coffee Pot.—Philander Perry, Charlestown, Mass.

I claim the combination and arrangement in a coffee pot of the movable perforated tank, G, and the tunnel, H H*, with the close concave radiator of diaphragm support, J, when the latter is removable, all substantially as an for the purpose described.

for the purpose described, 69,018.—HARVESTER.—G. M. Peters, Jr., Granville, Ohio. I claim the combination of the two endless aprons or carriers, I J, constructed and operating as described, frames, H C, axle, A, and sickle, O, with or without the gnides, P, all arranged to operate substantially as and for or without the gnides, P, all arranges to operate substantially as and for the purpose set forth. 69,019.—Conductors' Ticket Punch.—William J. Phelps,

Springfield, Mass.

1st, I claim the combination of the lever, B, and die spindle, h, pivoted thereto, with the slotted lever, A, zuide, p, and female die, m, the whole arranged and operating substantially as set forth.

2d, The arrangement of the slotted lever, A, and female die, m, lever, B, and male die, h, in combination with the spiral spring, C, substantially as described.

69,020.—TRUSS.—Wm. Pomeroy, Brooklyn, N. Y.

1st, I claim the block or shoulder, D, and eccentric, E, constructed as described for the purpose specified.

2d. The rotating arm or slide, I attached to one end of the body spring, A, and secured in position, when adjusted, by a set screw constructed and operating substantially as and for the purposes therein described.

3d. The sloted end of the rotating arm, I used in connection with a pad spring and a screw, K, substantially as herein shown and described, and for purpose set for the contract Hoove S. S. Dutney Downbester, Mass

spring and a screw, A, substantially as all the screw and screw an

Mass.

I Mas

described. --Clothes Dryer.—D. B. Randall, and A. A. Wil-

Glover, Vt. 1st., We claim the combination of the guideway, B, or its equivalent, guide, C, and frame, D, with each other substantially as herein shown and described and for the purpose set forth.

2d. The jointed central bar of the frame, D, in combination with the guide, C, and guideway, B, substantially as herein shown and described and for the purpose set forth.

3d. The combination of the adjustable brace bar, E, with the guide, C, and contral bar, d of the frame, D, substantially as herein shown and described and for the purpose set forth.

and for the pursoes set forth.

69,924.—GATE.—Edwin Reynolds, Metomen, Wis.

Iclaim the combination of fence panel, A, with gate, B, when the same are provided with an elongated har or upright. a, adjustable pieces, hm, and pulleys, e.g., all constructed, arranged and operated in the manner and for the purpose set forth and described.

69,025.—FURNACE FOR SMELTING ORES OF SILVER.—A. H.

09,023.—FURNACE FOR SMELTING ORES OF SILVER.—A. H. Richardson, Denver, Colorado. I claim a smelting furnace having the blast supplied upon the ores in a furnace box provided with an apron in manner as above set forth and furnished with three apertures at different levels, in manner and for the purposes substantially as above set forth and described. 69,026.—RACK FOR BROOMS, BILLIARD CUES, ETC.—E Richards of the purpose of

(69) U20.—IXACK FUR DIMODALS, and Brooklyn, N. Y. 1st, I claim in a rack for holding or suspending brooms, ones and other articles as described, the slits, lined or provided with a suitable elastic or binding device, and formed in the side or edge of the rack so as to communicate with the perforations or recesses in the said rack as and for the purposes set

with the perforations or recesses in the said rack as and for the purposes set forth.

2d. The combination with a rack in which articles are held or suspended by means of rubber or equivalent clastic body, of a plate or equivalent means for supporting the buts or lowerends of said articles, as set forth.

69,027.—HITCHING POST.—D. C. Robie, (assignor to himself and Moses Goldthwaite), springfield, Mass.

I claim the hitching post constructed of a closed too and an opening, e, on its side communicated with the annular space, a, for the purpose and in the manner substantially as described.

69,028.—TRUSS.—John L. Rowe, New York City.

I claim the springs, c, connected with and extending from the springs, a, in the manner specified in combination with the pad plate, g, to which they are united by one bolt in the manner and for the purposes set forth.

69,029.—CHURN.—M. V. B. Rowley, Worcester, N. Y.

1st. I claim the working beam, L, securely attached to the pendulum rod, O, whereby the pitman, K, is carried past its center as herein set forth for the purpose specified.

2d, The combination of the working lever, L, pendulum and rod, O, P, pit-

pnrpose specified.
2d. The combination of the working lever, L. pendulum and rod, O.P., pit man, K., and crank wheel, J., substantially as described for the purpose speci fied. 69,030.—Apparatus for Washing Ores.—Newell S. Ryder,

obj. 50.—APPARATUS FOR WASHING ORES.—Newell'S. Ryder, Greenland, Mich.

1st. I claim a buddle, A, so suspended and operated that while it has a lateral rocking motion, is stall at the same time have a longitudinal oscillation substantially as and for the purpose set forth.

2d. A buddle when constructed and arranged so that the floor is higher at the tail than at the head so suspending it that in rocking laterally the axis of oscillation shall be higher at one end than at the other substantially in the manner set forth.

3d. I claim the arrangement of the seive, B, box, A, and pipes, I and K, substantially as set forth.

69,031.—PUNCH.—Edward Schindler and Charles H. Metzger, Easton, Pa.

69,051.—PUNCH.—Edward Schiller and Charles ger. Easton. Pa.

1st. I claim the levers, C.D. when connected by the straps, b, the former provided with the set screw, K. the latter provided with the removable punches, k. arranged in relation with the longitudinal adjusting plates, E.F., substantially as described for the purpose specified.

2d. The adjusting plates, E.F., when provided with flanges upon their upper ends whereby the leather is taken from the punches when the latter are raised as hereigh own and described from the punches when the latter are taken as part of the boles to be punched is governed substantially as described for the purpose specified.

1th. The arrangement of the flanged adjustable guides, E.F., gage, h, plate g, and punches, k, substantially as described for the purpose specified.

lescribed for the purpose specified.

4th, The arrangement of the flanged adjustable guides, E.F., gage, h, plate t, and punches, k, substantially as described for the purpose specified.

19,032.—COAT AND HAT HOOK.—William Schmitt, N. Y. City.

1 claim the hinged hook jaws, B.C., in combination with a spring latch or other locking device constructed and operating substantially as and for the purpose described.

2d. In combination with the hook jaws, B.C., the elastic tips, a, substantially as and for the purpose described.

as and for the purpose described.

3d, The clamp, F, in combination with the hook jaws, B C, and with a suitable locking device constructed and operating substantially as and for the

purpose described. 69.033.—Door Bolt.—Arthur H. Sherwood, Southport, Conn

Antelated Sept. 7th, 1867.

Antelated Sept. 7th, 1867.

I claim the above catch, G, in combination with the bolt, DEF, substantially as and for the purpose specified.

69,034.—Bow Irons for Vehicles.—George W. Slater, New Haven, Conn. st, I claim the bed plate, A, constructed of one piece as and for the pur

ose set forth.
2d, The slats, g, so formed as to be attached to the bed plate, A, by means f knuckles, d, in the manner herein described.
3d, The cars, s, on slats, g, used in forming thimbles to receive the bows as erein set forth. 4th, The best plate, A, in combination with slats, g, and bows, c, the whole constructed and operating substantially as herein set forth.

69,035.—Wagon Brake.—A. P. Smith, Greensburgh, Pa. I claim the combination with the running gear of the wagon, of the sliding bed, the friction rollers, the inclined slots, the draw bars, the rock-shaft and the brake lever, the whole being constructed, arranged and operating as de-

scribed.
69,036.—Horse Rake.—G. W. Snyder, Kalamazoo, Mich., assignor to himself and James Aiken, Mendota, Ill.
1st, I claim the arrangement of the rake, C, with its plates, g g, pawl,m, par,l, shield, l, and lever, e, with the swinging frame, G, in the manner and for the purposes specified.
2d, The combination of the axle, A, with its wheels and thalls, A', provided withshaft, b, with lever and ratchet rake shaft, c, with teeth, a a, frame, G chains, Jl H, and pawl, m, withlever, e, all arranged and used in the manner set forth.

69,037.—HYDROCARBON VAPOR MACHINE.—James F. Spence,

Brooklyn, N. Y.

1st, I claim the combination and arrangement of the three chambers, Brooklyn, N. Y.

1st, I claim the combination and arrangement of the three chambers, Br. with the reservoirs, D.D. and supply pipes, d.d.r, substantially as and for the purpose set forth.

2d. The two rotating drums, H. previded with chambers, e. in combination with the tubes, o, substantially as and for the purpose set cined.

3d. In a hydro-carbon vapor machine, the employment or use of a plurality of hydrocarbons or different grades placed in one or more chambers of the machine, substantially as and for the purpose set forth.

4th, The valves, F, constructed of cork or other similarlightmaterial when goed in connection with a hydrocarbon vapor machine substantially as and for the purpose set forth.

2,760.—LANTERN.—Wm. Westlake and James F. Dane, New used in connection with a hydrocarbon vapormachine substantially as and for the purpose set forth.

69,038.—Odometer.—James C. Spencer, (assignor to himself and Archibald B. Vandermark,) Phelps, N. Y. I claim the combination of the cog wheels, D and E., in the box, C, the wornge ar, a, the ratchet wheel, c, operated by the spring pawl, d, on the rock shaft, e, and the hub. A, provided with the pin, h, for giving motion to the rock shaft, e, and the hub. A, provided with the pin, h, for giving motion to the rock shaft, e, and the hub. A, provided with the pin, h, for giving motion to the rock shaft by the arms, g g, arranged and operating substantially as heredescribed.

caused to oscillate between two electro-magnets in the manner set forth.

69,040.—PEGGING MACHINE.—Henry C. Stone (assignor to himself and John C. Gibbs). Brookheld, Mass.

1st. I claim the combination with the peg-wood carriage or table. B, having two or more grooves, a at or their equivalents, of a switch, J, substantially as and for the purposes set forth.

24, The combination of the switch, J, with the peg-wood carriage, B, and peg-guides, E it, substantially as and for the purposes set forth.

36, The combination with the peg-guide, E, of the adjustable, guide, o, substantially as and for the purposes set forth.

4th, The combination with bar, G, and pawls, 1 and g, of the connections, h and i, and slotted lever, H, substantially as and for the purpose set forth.

5th, The combination with bar, G, and pawls, 1 and g, of the connections, h and i, and slotted lever, H, substantially as and for the purposes set forth.

6th, The combination, in a pegging machine, of mechanism, substantially such as above described, whereby the operator can change from one length of peg to another without stopping the machine, as stated.

69,041.—HANGER.—Joseph M. Stone (assignor to Davis & Furber), North Andover, Mass,

I claim, in a hanger so constructed and arranged as to allow free motion of the shaft-supporting box automatically on both of two axes, provision for hanging the box by adjustable enering pivots within a frame, which frame is also held or suspended by acquistable enering pivots.

Also, the combination of the shaft box with the pivoted hoop, substantially as described.

69,042.—Beltzing for Driving Machiner Machiner Machiner M. A. Strou-

BELTING FOR DRIVING MACHINERY.—M. A. Strou-

velle, St. Louis, Mo.

1 velle, St. Louis, Mo.

2 velle, St. Louis, Mo.

Prussia.

I claim a disinfecting compound, composed of the ingredients herein decribed, and mixed together substantially as and about in the proportion set

scribed, and mixed together substantially as and about in the proportion set forth.

69.044.—SHAFT COUPLING.—J. W. Taylor, Oshkosh, Wis. I claim the hollow cylinder, a, provided with friction rollers, e.e, substantially as described, when used in combination with the dual pronged head, c, as and for the purposes set forth.

68.045.—HAY SHOCKEH.—Clark M. Terrell, Oskaloosa, Iowa. 1st, I claim the mode of retracting the teeth, F, by means of the crank shafts, H, in combination with the cam, I, substantially as set forth.

24. In combination with the cylindrical shell, A, and teeth, F, a receiving platform for sustaining the operator in forming a shock upon the hinged platform, K, substantially as set forth.

3d. In combination with a hay-clovating cylinder, A, and receiving platform, G, arranged to operate substantially as described.

4th. The platform, K, hinged to the machine, and supported by a spring so arranged as to discharge the shock by the action of gravity merely, substantially as set forth.

5th. The combination of the hinged platform, K, with curved teeth, K1, and the supporting spring, N, substantially as and for the purpose set forth.

6th. In combination with the revolving cylindrical shell, A, the band, O, arranged to operate substantially in the manner and for the purpose set forth.

7th. The combination with the revolving cylindrical shell, A, the band, O, arranged to operate substantially in the manner and for the purpose set forth.

forth.

7, So attaching the platforms, G and K, that they may be detached, and the machine may be converted into a tedder, substantially as set forth.

69,046.—WINDOW SASH.—Robert Thomas, Parkersburgh, West Va.

I claim the short bars, E, hinged to the bars, E1, of the lower sash, adapted to catch into notched plates, F, secured in the window frame, whereby the bars, C C1, are held in position so that they will not be drawn up by the weight when the sash, D, is removed, substantially as described for the purpose specified.

weight when the sash, D, is removed, substantially as described for the purpose specified.

2d, Thesash, D, when provided upon one side, with the books, d, fitting into notches of plate, f, upon the short bars, C, and upon the opposite side with reversed hooks, g, fitting into the notched plate, i, upon the long bars, C1, as herein set forth for the purpose specified.

69,047.—HAND LOOM.—T. G. Thompson, Richmond, Ind., and A. F. Fox, Greensboro, Ind., assignors to Thompson, Ballard & Co., Richmond, Ind.

1st, We claim the sliding latch bar, C, having projections, q and p, in combination with the posts, a, of the batten, B, and the ratchet cam, s, arranged and operating in the manner setforth.

2d, The combination and arrangement of the spring, l, constructed as described, with the lay triggers and their operating straps, as and for the purpose described. pose described. 3d, The handle, H, combined with the batten top, in the manner described and for the purpose specified.

and for the purpose specified.
69,048.—DEVICE FOR HITCHING HORSES.—J. B. Thornton,
Madison, Wis.
I claim a device for hitching horses constructed and applied to wheel
hubs, substantially as and for the purpose described.
69,049.—FRUIT LADDER.—Benj. F. Turner, Bridgeton, N. J.
1st, I claim the hooks, E, when applied to or used in combination with an
extension ladder, substantially in the manner as and for the purpose herein

forth. 1, The base, G, constructed with the pivoted braces, h h, when applied to seed in combination with an extension ladder, substantially as and for the or need in combination with an extension ladder, substantially as and for the purpose specified.
3d. in combination with the above, I claim the adjustable platform, H*, as herein set for the for the purpose specified.
69.050.—FOLDING CHAIR.—E. W. Vaill, Worcester, Mass.
1st, I claim the blocks. G GI, hinged to the legs and arms of the tolding chair, and constructed and operating substantially as and for the purpose de-

chair, and constructed and operating substantiarly as and for the purpose described.

20, The folding chair, above described, consisting of the standards, A. At, legs, B. Bl., traverses, T.T., cross bars, C.Cl., pivots, a al, rounds, R.R., curved slotted arms, D.D.I., and singed blocks, G.Cl., all constructed, combined, and operating substantially as and for the purposes specified.

69,051.—Boot Heel.—Robert Vandervort, Pittsburgh, Pa. I claim the metallic heel, C, with the front projecting lip, n, and internal recess or shoulder, I, held in place by means of the plate, A, secured firmly to the sole, and screws, b and c, as herein set forth.

68,052.—FASTENING FOR BREASTPINS.—A. R. P.Walker, Richmond, Me.

88,052.—FASTENING FOR BREASTPINS.—A. R. P.Walker, Richmond, Me.

I claim the pin, A, constructed as described, consisting of the head, a, twisted through the undivided eye, b, of the plate, B, and provided with the lateral turn, C, the end of the head, a, resting upon the plate, all operating as described for the purpose specified.

(89,053.—REGULATING DEVICE FOR WATCHES.—Andrew Warren, Waltham, Mass.

I claim in combination with the indicating regulating leveror wheel having a spiral formation and arranged to both hold and move said lever, substantially as described.

Also in the said combination I claim the employment of two or more pins in the lever and gearing into the spiral, when the relation between the spiral and the pins is substantially that specified.

Brooklyn, N. Y.

Brooklyn, N. T.

I claim the adjustable beaters, C C, connected with the shaft, E, and suspended from the adjustable cross bar, c', all constructed, arranged and operating as herein shown and described.

69,055.—HEAD BLOCK FOR SAW MILLS.—Titus Whitmore, Du-

buque, I owa.
I claim the combination and arrangement of the index wheel, T, baving cam, W, spring, a2, slotted arm, n, carrying pin, y, spring pawl lever, e2, arm, V, dog, a2, noon shaft, I, pinion, K, clutch, I, gear wheel, O, and band wheel, O, and freed sorew, S, whereby the log is set to the saw as h rein set for: 11 for the purpose specified.

69,056.—DEVICE FOR SEWING MACHINES.—Lewis R. Wiggin,

Farmington, N. H.

I claim the tank, A, water chamber, B, and steam worm or tube, D, combined and arranged substantially as and for the purposes above set forth and described.

2d, The supplementary tank, A', and prolongation, D', of the worm or steam tube, D, and rubber presser, I, in combination with the tank, A, steam generator, C, and worm, D, substantially as and for the purpose above set forth and described.

69,057.—Steam Pressure Gage.—C. A. Wilson, Cincinnati, Ohio.

I claim the arrangement of the three vertical tubes, B C D, horizontal duct, E, and four way cock, L, with passages, F and G, and ventage, H, substantially as and for the purpose described.

69,058,—TRACE AND PAD BUCKLE.—E. B. Winslow, Chat-

described.
69,059.—WASHING MACHINE.—J. W. Woodruff, Watson, Ill. I claim the sliding handles, BB, box, A, spring, a, and beater, E, all being combined and operated as and for the purpose setforth.

combined and operated as and for the purpose setforth.

69,060.—BENDING MACHINE.—J. N. Woodward, Aurora, Ill.
I claim, 1st, The rib,C, on the bed plate, A, in combination with the cap,
D, and adjustable bars, a a, said parts being arranged to operate substantially
in the manner as and for the purpose set forth.

2d, Thesprings, F E, respectively in bed plates, A, and cap, D, arranged in
connection with the rib, C, and adjustable bars, a a, to insure the ready removal of the swaged sheet-metal strip, substantially as described.

3d, The combination of the cap, D, provided with the adjustable bars, a a,
and placed on the rods, B B, having springs, e, upon them, the rib, C, on the
bed-plate, A, and the lever, G, all arranged for joint operation substantially
as and for the purpose set forth.

REISSUES.

2,765.—LANTERN.—Wm. Westlake and James F. Dane, New

© 1867 SCIENTIFIC AMERICAN INC

69,039.—FIRE ALARM TELEGRAPH.—Joseph B. Stearns, Boston, Mass.

1st, I claim the employment of reverse currents for operating the bell striking mechanism in the manner and for the purpose specified.

2d, I claim successively engaging and disengaging the arms, bb', of a bent leverattached to the weighted shaft of the bell striking mechanism by the movement of a magnetized arms thre which by means of reverse currents, is caused to oscillate between two electro-magnets in the manner set forth.

3d, The spindle, ki, button, m, and tube, l, in combination with the ratchet and wick tube of a lantern, substantially as specified.

NOTE.—In the above list of patents, FIFTY-SEVEN were obtained through the office of the SCIENTIFIC AMERICAN.-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.

MUNN & CO., 37 Park Row, N. Y.

20,534.—APPARATUS FOR MANUFACTURING GAS.—John Absterdam, New York city. Dated June 15, 1858. Application for reissue received and filed Sept. 6, 1867. Division A.

I claim passing atmospheric air through channels or chambers, the walls of which are wholly or partially lined with or composed of cloth or other porous and absorbent material, which elevates by absorption or capillary attraction the fluid in the chamber or channel, allowing sufficient space for the passage of the air, substantially as and for the purpose exercised.

20,534.—APPARATUS FOR MANUFACTURING GAS.—John Absterdam. New York city. Dated June 15, 1858. Application for reissue received and filed Sept. 6, 1867. Division B.

I claim passing illuminating gas through channels or chambers, the walls of which are wholly or partially lined with or composed of cloth or other porous and absorbent material, which elevates by absorption or capillary attraction the fluid in the chamber or chamnel, allowing sufficient space for the passage of the gas, substantially as and for the purpose described.

56,879.—Tweer.—John Bayliss, New York city. Dated Ang. 7,1866. Application for reissue received and filed Sept. 7,1867.

I claim a tweer, A, having a water chamber, B, provided with connecting water and steam pipes, D and E, in combination with the air pipe, H, air chamber, I, and air pipe, J, arranged together and operating substantially as and for the purpose represented and described.

61,396.—HAND STAMP.—E. D. Chamberlain, Westfield, N. J., and Charles B. Brown, New York city, assignees of Dexter H. Chamberlain. West Roxbury, Mass. Dated Jan. 22, 1867. Application for reissue received and filed Sept. 9, 1867.

1st, I claim the combination of a stamping lever with type wheels and inking ribon, substantially as and for the purpose described.

61, The combination of the inking ribbon with the type wheels, all as set forth, the other purpose shown and described.

8th, Making the type wheels provided with recesses for the reception

with a lever hand stamp, substantially as and for the purposes herein shown and described.

2,725, whole No. 33,729.—Means of Sealing Presserve Cans.—Henry S. Fisher. Newburgh, Fa. Dated Nov. 12, 1861. Application for reissne received and filed Sept. 7, 1865.

1, I claim a self-adhesive seal which is prepared either in the form of a sheet, ring, disk, or piece of any required size or shape, and composed of paper which is thoroughly saturated and coated on its surface with a cement composed of the wholm described substances or the respective equivalents thereof, substantially as described and for the purpose specified.

2d, A self-adhesive scal which is composed of paper thoroughly saturated and coated with a resin cement, and afterward subjected to considerable pressure, so as to adapt the seal for hermetically closing preserving vessels, substantially as described.

3d, A seal which is composed of paper and cement, in combination with a compressing and retaining device, C, or its equivalent, substantially as and for the purposes described.

9,887.—Mode of Throwing Shuttles in Looms.—Stephen C. Mendenhall, Richmond, Ind. Dated Nov. 9,1852, Application for re-

9,387.—MODE OF THROWING SHUTTLES IN LOOMS.—Stephen C. Mendenhall. Richmond, Ind. Dated Nov. 9,1852, Application for reissue received and filed Sept. 4, 1867.

1st, I claim the combination of the picker spring, k. pickers, i i, incline cams, i), triggers, I'r, cords, in, treadles, 1, 2, 3, 4, and batten or lay, B, so that the forward motion of the batten shall set the pickers, and the backward motion of the batten shall release them alternately, by means of the cord and treadles, and thus arrive the shuttle back and forth through the warp, substantially as and for the purpose set forth.

2d. I claim the pickers spring, k, in combination with the pickers, i l. 3d, I claim the pickers, i l. combination with the inclined eams, j. 4th, I claim the pickers, i i, inclined cams, j., in combination with the triggers, f.

riggers, f. f. 5th, I claim the pickers, i.i., in combination with the triggers, f. f. 6th, I claim the combination of the triggers, f. f., cords, h. h, and treadles,

6th, I claim the combination of the triggers, II, colus, II, and attacks, 1, 2, 3, 4.
7th, I claim the spring triggers, II', in combination with the batten, B, when the same arc used for retaining the pickers, i.
8th, I claim alternately releasing the pickers, i, when the same is effected by the regular successive depression of the treadles, I, 2, 3, 4.
65,963.—SIEEPING CAR.—John Swan, Baltimore, Md. Dated June 18, 1867. Application for reissue received and filed Sept. 5, 1867.
1st, I claim a series of state rooms made crosswise of the car and provided with a side passage and independent ventilation, substantially as and for the burrowers set forth.

June 18, 1867. Application for reissue received and filed Sept. 5, 1867.

1st, I claim a series of state rooms made crosswise of the car and provided with a side passage and independent ventilation, substantially as and for the purposers setforth.

2c. The reservoir, F, pipes. H H, and basins, J J, for supplying water to the state rooms, substantially as specified.

3d. The side passage, C, when used in combination with a series of cross berths or state rooms, as and for the purpose setforth.

61,956.—Cooking Stove.—J. J. Savage, Troy, N. Y. Dated Feb. 12, 1867. Application for reissue received and filed Sept. 6, 1867.

1st, I claim the location of the fuel doorway of feed mouth, B, of stove furnaces, substantially below and forward of the combustion or fiame chamber, C, thereof, in such intermediate or centignous position to the fire box, A Y, thereof, as to admit of fresh fuel being fed thereinto, in manner substantially as hereinbefore described, for the purposes set forth.

2d, I claim the extension of the fire box, A, forward of the combustion or fiame chamber, C, of stove furnaces, and immediately under or contiguous to the aforesaid located fuel doorway, B, thereof, in manner substantially as herein described, for the purposes set forth.

3d, I claim allevel feeder, F, substantially as described, when operated in combination with or through said located fixed doorway, B, of stove furnaces, in manner substantially and for the purposes as herein set forth.

4th, I claim providing a feed lever, E, with a fulcrum hook, C, or an equivalent therefor, when used in combination with a fulcrum filed, or bearing, d, arranged on the edge of the aforesaid located fuel doorway, B, of stove furnaces, in an inclined or sundand position, in combination with the aforesaid located fuel doorway, B, of stove furnaces, after or guard plate, E, when arranged in position above the aforesaid located fuel doorway, B, when a stangage in position above the aforesaid located fuel doorway, B, the fire box, A Y, the combination of the

therein, by the conjoint means substantially of a feed aperture or sooway. B, located as useribed, and of a feed lever, F, or equivalents therefor, operating substantially asherein set forth, for the atoresaid purposes.

45,061.—HARVESTING MACHINE.—David J. Marvin, Stockton, Cal. Dated Nov. 15, 1864. Application for reissue received and filed Sept. 9, 1867.

1st, In a combined header and thrasher, I claim so pivoting or hinging the cutter frame upon the main axle, a, that it can be moved longitudinally, and also raised or lowered at pleasure, substantially as and for the purpose specified.

2d, In a combined header and thrasher, having its cutter frame mounted or hinged as above described, I claim the combination and arrangement of the bar, a', posts, b' b', pulley, d', cord, c', anderankrod, N, substantially as and for the purpose herein set forth.

3d, In a combined header and thrasher, I claim the arrangement of the cutter bar and apron, 2, running crosswise of the machine, in combination with the arrangement of the thrashing and winnowing apparatus running lengthwise of the machine, for the purpose of greater convenience and compactness, and in the manner substantially as shown.

4th, In a combined header and thrasher, I claim elongating the axle, a, so as to place the wheel, O. at a considerable distance from the main frame.

5th, I claim the combination of the levers, i and I, with the sliding header frame and the gear wheels, c and b, for the purpose of throwing the header apparatus into and out of gear, substantially asshown and 3-ecribed.

6th, I claim the swinging axle, a, in combination with the gear wheel, b', pinio n, Q, and lever, A, for throwing the thrashing apparatus into and out of gear, substantially as shown and 3-ecribed.

9,653.—Weaving Cornel Pabrics.—William Smith, New York city. Dated Aprils, 1853. Extended April 5, 1867. Application for reissue received and filed Sept. 10, 1867.

9,505.—WEAVING CORDED FABRICS.—WITHER SHIDEL, NEW York city. Dated April 5,1853. Extended April 5,1867. Ressue No.2,556, dated June 18,1867. Application for reissue received and filed Sept. 10, 1867. Division A. I claim the process herein specified of weaving, consisting in the use of stationary warps in combination with moving warps and filling that incloses such stationary warps, substantially as set forth.

9,653.—WEAVING CORDED FABRICS.—Wm. Smith, New York city. Dated April 5, 1833. Extended April 5, 1867. Reissue No. 2,656 dated June 18, 1867. Application for reissue received and filed Sept. 10 1867. Division B. I claim the fabric specified, the same being formed with center warps, in I closed by the weft threads that are held upon the surface of the center warp