extent in England. Many also of those of this country not extent in England. Many also of those of this country not now connected with mechanical business, whose means en-able them to visit Paris, are intelligent and observant men, perhaps formerly workmen, who will not fail to note whatever may be interesting and useful to our mechanics, and give the public the advantage of their observations. **Tobacco Morality.** The characteristics of an individual are vividly portrayed in little things. An exchange in relating the traits of inner

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life in the workshop, alludes to the moral caliber of the men by the way they get tobacco of their shop mates, by begging, or borrowing as they are most apt to term it. One man will offer his fellow workman his tobacco box from which to help himself: another will take a bit from his box and hand it be grudgingly to his companion, and another will deny that he has any tobacco about him or perhaps that he ever uses it. One man, a Jesuit in nature if not in creed, used to keep two tobacco boxes, one he called "The World," the other "Providence." When asked for a lipe of tobacco, he would answer, "I have not a bit in 'The World;'" then calmly go off to one of the secret smoking places and light his pipe with a serene conscience. If taxed with falsehood, or asked how he had got his tobacco, "I put my trust in 'Providence," he would answer, and the prevarication was as good to him as truth

OFFICIAL REPORT OF PATENTS AND CLAIMS

Issued by the United States Patent Office, FOR THE WEEK EN ING JUNE 25, 1867.

Reported Officially for the Scientific American

PATENTS ARE GRANTE FOR SEVENTEEN YEARS, the following being a schedule of feeat-

On	filing each Caveat
Un.	ning each application for a Patent, except for a design,
Un	issping each original Patent.
Οn	appeal to Commissioner of Patents
υn	application for Reissne
Un	application for Extension of Patent
Un.	ETBALING the Extension
On	filing a Disclaturer

15

On filing application for Design (three and a half years).... On filing application for Design (seven years).... On filing application for Design (fourteen years)..... In addition to which there are some small revenue-stamp taxes. Residents

of Canada and Nova Scotia pay \$500 on application.

Framphiets crathening the Patent Laws and thil particulars or the mode f applying for Letters Patent, specifying size of model required, and much therinterination useful to inventors, any he had gratic by addressing MUNN 5 Co., Publishers of the Sofewripit Amsgican, New York.

65,087, -- APPARATUS FOR FORMING BUMPER CARRIERS FOR RAILROAD CARS.--W.C. Allison, Philadelphiu, Pa. Antectated June 10, 1867.
184. (claim the combination of the block, H, handled eccentric), blocks B and C, and the devices herein described, or the equivalents to the game, for affecting the simultaneous action of the blocks, in the manner described.
24. The combination, substantially as described, of the bending blocks, E and E' and F and F', with the blocks, B and C.
36. The combination of the forming blocks, E and E', with the handled eccentries, t t'.
36. The arrangement on each of the several forming blocks of its spindle and collar in respect to the corner of the block, as described.
36. Sp88.--MODE or KEEPING EGGS.-B. D. Atwell and Miss G. H. Crawford Portage City, Wis.
We claim the application of the alove recipe tor preserving eggs, as herein described, using for that purpose the aloreside ingredients, or any other substantially the sume, and which will produce the intended effect.
36. Bolt CUTTER.-A. S. Bailey, Knoxville, III.
1 claim the combination of the class, n, formed thereon, when all are arranged for joint operation as herein shown and described.
36. O-MACHTNE FOR DRESSING MARBLE.-R. P. Bailey, Niegara Falis, N.Y. 65.987.--APPARATUS FOR FORMING BUMPER CARRIERS FOR

Niagara Falis, N. Y. I claim the employment of a series of spring blades or scrapers, h, in com-ination with the clamping arms, C, and head or stock. A, for acting success vely on the material to abrade it to the form of said blades, when con-tructed, arranged and operating substantially as and for the pnrpose set orth. forti

forth. I also claim the arm or holder, C, when connected with the head, A, or its equivalent, by means of pivot, d, and the bearing bolts, e.g. arranged to allow the blaces to adjust themselves to the work when rotated in either direction, substantially as set forth. I also claim, in combination with the blads, h, and its set bolt, k, the chamiering away of the clamp sides at i, substantially in the manner and for the purpose set forth.

Continently away of the chain process of 1, substantially in the manner and for the purpose set torth. (55,991.—DistLing INSTRUMENT.— N. Barnum and G. C. Schreiber (assignors to N. Barnum), St. Louis, Mo. 1st. We claim the stock, B, with a tool cavity and topening slots for the screw, e.g. io its lower end combined with the spring, C, and set screw, e.g. substantially as described and set forth. 21, file slotted tool, c, in combination with the spring holder, C, and its set screw, e.g. and the tool stock, B, when arting substantially as set forth. (55,992.—ROTARY 1^oUNT.—J. A. Bazin, Canton, Mass. I claim the packing, fk, constructed as described, and arranged between the wings of the pistons, substantially as set forth. (55,992.—RotARY 1^oUNT.—J. A. Bazin, Canton, Mass.

55,993.—BLIND FASTENER.—A. Bingham, Newtonville, Mass. I claim the blind fastener as composed of the catch lever, C, the stop, D, its shoulders, h h and the catch, E, arranged and constructed so as to be applied to a blind and a window frame or sill, substantially as specified. 65,994.-WATER METER.-E. Blakeslee, Plymouth, Conn.

65,994.—WATER METER.—E. Blakkslee, Plymouth, Conn., and J. S. Hunter, Hartford, Conn.
ist, We claim the valve, I, having the opening, a, and passages, d and e, arranged in relation to the ports in the valve seat so as to operate substan-tally in the manner described.
24, in combination with the above we claim the weighted lever, k, con-serncted so as by its movement to reverse the flow of water, substantially as herein set forth.
34, in combination with the above we claim the diaphragm or piston, ar-ranged substantially in the manner described.
25, 995.— HARNESS SADDLE.— Valentine Borst, N. Y. City. Ist, I claim the removable books, C C, a dapted and arranged to and with the hollow bridge or pier, B, substantially as set forth, so that the saddle can be used with or without the hooks.
24, I also claim the use of the terrets, D D, for securing the hooks, C C, in the ends of the hollow bridge of the saddle, substantially as set forth.
65,996.—MORTISING MACHINE.—S. C. Brown, Richmond, Ind., assignor to.J. A. Fay & Co. C. Cincingati, Ohio.

66,002.—CORN PLANTER.—H. W. Camp and A. W. Fox,

166,003. CALEMDAR CLOCKS.—C. M. Clinton and L. Mood, I. Ithaca, N. Y.
1st, We claim the twenty-four-hour escape made by the segmentary wheel, A. effertient, B. and arm, C. when substant-ally made as described.
2d, We claim, in combination with the arm, C. the use of the eye D. or its equivalent, acting in a variable and chairgeable space, between the nutsor burs, R and F. o. their equivalents, both for the ournose of holding and adapting our various devices to each other and to allow a constant movement of our time escape arm, C, while the rod. G, moves different or diverse distances according to the variable length of the months of the year, and also for adjusting the calendar and clock works to each other, as set forth.
3d. We claim the exprints, I, and H. acting on the correcting rod, G, and the segment, B. enher one or both or uncentage contingentor numering and the segment, B. enher one or both or uncentage contingentor numering and the escibed, for the ordination of the spring 1, with the rod, G, as described, for the purpose of retracting the calendar correctly through our out elevices by the position of the clock and calendar at the rapproprise times as described.
3th, We claim the combination of the spring 1, with the rod, G, as described, for the purposes of retracting through our other devices by the position of the clock and calendar accorrect through our other devices by the position of the clock and calendar correct through our other devices by the position of the velow the or supplementary through our claned and is connecting a complete or supplementary through our other devices by the position of the velow the or supplementary through our other devices by the secribed.
3th, We claim gave and the clanedar correct through our other devices by the secribed.

botaining a complete or supplementary driving power for our calendar, as described.
sth, We claim gearing the month cylinder into the month wheel either directly or by aternetiate cog wheels as described.
6th, We claim the vibratory shaft and ever wheel, or any similar device, and the gearing the same in any momer with the 'hitts-on-day wheel's at the work of the month device, when so made as to revolve the days of the week or the to one or nor wink ye have, as described.
7th, We chain plutting of methods in the teent, Y b, for holding the said eag wheel and the gearing the same in any index is described.
7th, We chain plutting of methods wheel on the weight lever or cross bar of the vibratory shaft and itscometed parts fast while out of gear; and we claim the gearing of the day of the week vylinder into the vibratory drive; the wheel of these just named parts as a combined whole or acch acting "eparately by itself, as described'.
8th, We claim the fixed stop. N, for checking the upward motion of the weight hever or cross bar by the pawl or dor. M, or other convenient part convenient part of paper, or other similar light material, for the sake of their years weight and strain on the mechanism of the culenar, as described.
8th, We claim the specific device of a month wheel made by the variable

their lesser weight and sirain on the mechanism of the cilendar, as de-scribed. 10th, We claim the specific device of a month wheel made by the variable depth of teeth, Ua Ub Uc and Ud, to accomplish every possible monthly chance reasonably requisite in a calendar clock, as figured and described. 11th, We claim the device of putting the month wheel in direct commun-cation with the thirty-one-days wheel shaft or any part or portion of the thirty-one days wheel or shaft, as described. 12th, We claim placing the month escape can on the shaft of the thirty-one days wheel so that oue tooth or month of the month wheel scapes in every revolution of the thirty-one-days wheel 13th, We claim placing the month wheel and vet allow at the proper time that wheel to revolve as described, and also the making of an additional length of teeth to the teeth of the month wheel so as to fit and embrace the said cam or ecape, as described, and also the making of an additional length operating so as to produce the described revuly made as described, and except educt to the thirty-one-days wheel on either one or both of the said cam or ecape, as described. 14th, We claim the hinged lever, substantially made as described, and operating so as to produce the described revuly is on the month wheel and escape detent of the thirty-one-days wheel on either one or both of the said can or ecape, as described. 15th, We claim the sensitive days wheel on either one or both of the said described. 16th, We specifically claim the shor-shaped and convex cams, one or both

bith, we chain the employment accomplishing any one or all of the purposes described. Joth, we specifically claim the shoe-shaped and convex cams, one or both on the end, T. of the innged lever, as described. Joth, We claim centering and connecting the devices of the hinged lever, R, the cam or escape, Va. of the month. Wheel, the month. Wheel, it wheel and said cog wheel, the month wheel itsch, as described. Thus, We claim centering and the day of the week cylinders, innmetiately with the axis. V. of the thirty-one-days wheel or that wheel lisch, as described, thus simplifying and making more compact our calendar. 66,004. — GAS APPARATUS. — Charles Dearws, New York, N. Y. Ist, I claim the use of two or more refores connected together in pairs of that the first shall volutiles the roll or oilly substance, and the second shall complete the conversion thereof into a fixed g is substantially as and for the purpose herein above welforth. and for the purpose herein above welforth. and for the combination with the discharge end of the cooling trongh, L, we may the the single the sould reform the share on the substantially as an for the purpose pet forth.

the mat and ministry provide the scharge end of the conductor pipe, K, of a set The combination with the discharge end of the conductor pipe, K, of a perforated or reticulated disk, h, substability as and for the purpose set

orth. 4th, The combination with the oil reservoir, U, and retorts, B, B', of a cut ff, y, constructed and operated substantially as berein de-cribed. 66,005.-WINDOW SCREEN.-R. G. Dennell, Saco, and Liber-

purposes 66,006.--BOAT DETACHING APPARTUS -Wm. A. Devon, Port

Biomond, N. Y. Autedaved June 11th, 1867. I claim, first, the construction and application of the jointed hooks attached to the boat by an extremed sharks, in comb nation with the slides, g, and in terposing springs, arranged and operating substantially as specified. 2d, The arrangement at opposite ends of the boat of detachable spring-hooks, constructed substantially as inserving the combination with real-hable spring-hooks, constructed substantially as inserving the outbin detachable spring-hooks, constructed substantially as inserving the number of chain connections with link boat. "The view they may be operated humans to nhock the slides that secure the hooks in their closed condition, essentially as presented to the secure in the secure sector the secure in the secure secure in the secure secure in the secure sector the secure as herein set forth. 66,007.—ANIMAL TRAP.—J. P. Emswiler, Knightstown, Ind.

66,007.—ANIMAL TRAP.—J. P. Emswiler, Knightstown, Ind. I claim in a rat trap the combination of devices for distinguing the shaft, C, and actuating the fingers, K, and doors, D and F, substantially as described. 24. The combination of the revolving fingers, K, shaft, C, eccentric, CI, tod E, and door, F, substantially as described. 3d, The combination of the revolving fingers, K, shaft, C, eccentric, C2, routs, D1, and doors, D, substantially as and for the purpose set forth. 4th, In combination with the revolving shaft, C, and ingers, K, and auto-matically acting door, F, one ning into the upper chamber, I claim, the door, L, opening into the lower chamber, substantially as and for the purpose set forth.

66,008.—FARM GATES.—J. W. Epperson, Woodhull, Ill.

00,008.—r ARM GATES.—d. W. Epperson, W oddhull, Ill. I claim, first, the spir wheel, E, operating substantially as described, 2d, The grooved rail, D1, of the gate, D, in combination with the spir wheel, B, and the revolving wheels, C attached to the fence posis and upon which the gate sildes on opening and closing. 3d, in combination with the give, D, with horizontal rail, D1, and vertical strips, D2, I claim the spir wheel, E, shaft, E1, and winch. F, arranged to op-erate substantially in the manner and for the purpose set forth. 66,009.—DIES FOR SWAGING AND PUNCHING THE JAWS OF WRECHER.—L S. Farnsworth (assigned to E, G, Lamson). Windor, Vt.

WRENCHES. - J. S. FARISWAGING AND FUNCTING THE JAWS OF WRENCHES. - J. S. FARISWORT (assignor to R. G. Lamson, Windsor, Vt. I claim the combination of dies and punch, constructed and operating sub-stantially as described. 66,010. - CURTAIN FIXTURE. - M. R. Fenton, Washington, D.C. I claim, first, the hinges, A, A, in combination with bar, C, and roller, D, substantially as and for the purpose specified. 24, Hinges, A, A, pulley, J. cords. s, and n. and roller, D, combised and ope-rating in the manner and for the purpose sub-tantially as herein described.

66.011.-Apparatus for Boring Cylinders.-L. B. Flanders

Philadelphia, Pa. I claim, first, the combination of the boring bar, B, the casing, I, its train of wheels herein described, or the equivalent to the same, the nut, w, and the stationary feeding worew, G, the whole being arranged and operating sub-stantially as described. 24, The cog-wheel, d, its circular recess and grooves, t, t, in combination with the hollow spindle, r, and the rod. s, with its pin, si, and spiral spring, u, the whole being arranged and operating substantially in the manner and

united thereto by a boltor key, substantially as herein described and repre 66,017.-SPINDLES FOR SPINNING.-A. H. Gilman, Hopedale,

66,017.--SPINDLES FOR SPINNING.-A. H. Gillman, Hopedale, Mass. I claim the application of the step cap, C. to the spindle, A. by means or de-rices, such as when the cap may be encompassing or covering the step, and the spicule may be in revolution, shall not only cause the cap to be revolved with the spinalle, but allow it, the said cap, to be freely raised off the step in order to earble such step to be supplied with oil as occasion may require. I also claim the combination and arrangement of the collar. D, with the spinalle, A, and the cap arranged with a step as set forth, the collar being for the purpose or object as explained. I also claim the arrangement of the collar, D, and the stud, d, with the spinalle, A, and the cap, G, provided with a recursor hole, c, to receive the stud and applied to a step, B, substantially as described. 66,018.-BOILER-FEED-WATER KEGULATOR.-C. H. Gould, Cinctionati, Ohio. 1st, 1 claim the reciprocating rotary shaft, C, traversing the boiler, side within a suitable horizontal sleeve, A, and provided with a float F, inside of the boller, and adjustably weighted lever, I, outside of the boller, no com-bination with the adjustable rod, K, and valve guarded water supply pipe, substantially reset forth.

the boller, and adjustably weighted lever, I, outside of the boller, in com-bination with the adjustable rod, K, and valve guarded water supply pipe, 3d. I claim the arrungsment of rod, K, bossed cap, P. diaphraghm, N, and water supply pipe, Q, for the purpose described. Set, The collong float, F, stem, K, reciprocating rotrry shaft, C, sleeve, A, with strum tighl joint or joints in combination with the rod, K, and dia-phragm stop, N. (6,019.—SORGHUM EVAPORATOR.—W HanSon, Willoughby, O. 1st, I claim the employment of the partitioned tank, M, provided with stru-cocks and hose, P and P', in combination with the evapor ating yat, K, auxi-iary fire box, I, dampers, X, X, constructed with turned up edges, Y, Y, Y', arranged and operating as and provided with levers, I and T, m combina tion with the evaporating yat, K, provided with levers, I, and T, m combina-tion with the evaporating yat, K, provided with levers, I, and T, m combina-tion with the evaporating yat, K, provided with levers, I, and T, m combina-tion with the evaporating yat, K, provided with levers, I, and T, m combina-tion with the evaporating yat, K, provided with levers, I and T, m combina-tion with the evaporating yat, K, provided with levers, I and T, m combina-tion with the evaporating yat, K, provided with levers, I and T, m combina-tion with the evaporating yat, K, provided with levers, I and T, m ad auxiliary front end, a wide and gradually contracted fire chamber, H, and auxiliary front end, a wide and gradually contracted iffer chamber, H, and auxiliary for theory (1, arranged and operating sapperfiled. 5th. The use of extended lever arms, U, U', located as shown, in fig. 1, and ob-rating the draingates, V, V', in the inaner specified in combination with the evaporating yat, K, as set forth. (60,020.—MACIINE FOR EATING AND PICINING COTTON.—Dia-vid Hardnar, Lowell, Mass.

90,020.—MACHINE FOR DEATHOR AND FROM CONTENTS CONTENTS of the second sec 66.021.

ity. it. I claim the construction of the double case or cover having the perfor-start takes, A and B, arranged one within the other, for the purpose and sub-stantially in the manner set forth. 24. The double handle, G, adapted either for burners constructed as shown in figure 3, or for ordinary gas burners, for the purpose and substantially in the manner set forth. 34. The apparatus consisting of the tubes, A and B, cap, D, lamp, C, and socket, F, constructed and combined for the purpose and substantially in the manner set forth. 26. OND

manner set forth. 66,022.—ABDOMINAL SUPPORTERS.—William Henderson and

50,022.—ABDOMINAL SUPPORTERS.—William Henderson and J. Greenawalt, Pittsburch, Pa. We claim securing the end of the wire. L. by means of a spring eatch, b, attached to the front plate, A, and oper (tot by the knob, K, in the manner herein shown and set forth. 64,028.—DEVICE FOR CLOSING BOTTLES.—Conrad Herman, Detitions Md

66,023.—DEVICE FOR CLOSING BOTTLES.—Conrad Herman, Baltibore, Md. I claim the hinged clasp, A, fastened by means of the lugs, a, and screw, b, and having upright arms, d.d. with the cover, B, pivoted to d', and fastened to l, by means of the lugs, on, and screw, t, when arranged to operatesub-stantially as described and set forth. 66,024.—LIME KILN.—Chas. Hinkley, Williamsville, N. Y. I claim the combination and arrangement of the elliptic cubola, A, the in-wardly widened furnaces, B 8, sharp-edgedpillars, h b, and flues, e e, as and for the purpose herein specified. 66,025.—PETROLEUM GAS BURNERS FOR HEATING PURPOSES. —D 8. Holden New Orleans, La.

-D, S. Holden, New Orleans, I.a. I claim agas retort and burner consisting of the concentric or annular off clamber, C. in combination with a central airchamber or flue, B. provided with perforsively, D. at or near the top of chamber, C. substantially as and for the purpose described.

66,026.—MACHINE FOR CLEANING Moss.—Henry Hull, Pat-

06,020.—MACHINE FOR CLEANING MOSS.—Henry Hull, Fat-tersonville, La. I claim the vibrating convex card, A, in combination with a fixed concare card, C, when the teeth of both project in the same direction and at the same angle as described for the Purpose set forth. 66,027.—FIFLD FENCE.—Marshal Ingersoll, Elyria, Ohio. I claim thefence constructed and arranged in the manner and for the pur-pose substantially as specified. 66,028.—Hydraulic PRESSURE REGULATOR.—Isaac Judson, New Haven Conn

36,028.—IIYDRAULIU F RESSURE TREATMENT of the value of 66 029.-

66 029.—POTATO DICGER.—G. W. Kintz, West Henrietta, N.Y. Ist. I claim the double-winzed mold-board plow, provided with the adjust-ing slate, b. and flays, a arranged and operating in the manner and for the purpose set forth. 2d The combination and arrangement of the adjustable combs, D, with the double-winzed slatted mold board, C, operating in the manner and for the purpose specified. S. The employment, in combination with the double-winged slatted mold board, et the robers, e.e., situated in the ends of the handles, as set forth. 4th, The combination with the double-winged slatted mold board, et the robers, e.e., situated in the ends of the handles, as set forth. 5th, The combination with the double-winged slatted mold board of the shaker, composed of the plates, i, vibrating arms, o, and axle, G, with cogs, n, and the adjustice braces, L. as set forth. 5th, The employment of the Pivoted vine puller, P, with ratchet rod, Q, so arranged as to operate from the rear for discharging the vines as herein set forth.

or in. 6th. The arrangement of the machine as a whole, consisting of the slatted noid board, C, combs, D, shaker, 11 G L n o o, and vine puller, P Q, as herein mold

set forth. 66,030.—ADJUSTABLE TIRES FOR WHEELS—D. J. Kirkman and E. H. Gray, Winchester, Ill. We claim isr, The cap, C, when constructed substantially as and for the surpose set forth.

24, The shoe, D, when constructed substantially as and for the purpose

Set clined. Set, The cap, C, and shee, D, as constructed in combination with bolt heads, e, and screw bolt, d, substantially as and for the purpose described. 66,031.—PLOW.—D. J. Kirkman and L. H. Gray, Winches-

00,031.—1 LOW.—D. J. KIrkman and E. H. Gray, Winchester, II. Ist, We claim the employment of a subsoil plow, F. when attriched to the adjustable bar, m. saidbar being constructed and arranged in the manner hcrein specifical. 2d, The adjustable bar, m. double jointed arm, h. and hook, i, the whole combined in the manner and for the purposes of rota. 66,032.—NAIL EXTRACTOR.—A. Marden and A. H. Burgess, Philaelphia Pa.

66,032.—NAIL EXTRACTOR.—A. DIAIUEN AILU A. H. DUIGUES, Philadelphia, Pa. We claim the Jaws. D.D. when constructed with slightly tapering slies, hinged together at the 'np and having an intervening spring, which Jaws rest in a corresponding inpuring. But the handle, A. and operate to-gether in the manner substantially as described and for the purpose specified 66 033.—MEAT CUTTER.—Vm. M. Miller, Tulpehoccan, Pa. I claim the block, S, and spring arms, K, in combination with the screw nut, Y, and in the manner and for the purpose specified. 66,034.—BEAN PULLER.—S. W. Moore, Albion, N. Y. ist, I claim the combination of the fixed and sliding bars, b f, armed with interm atching teeth, g'g', operating substantially as and for the purpose herein set forth.

herein set forth. 201, Hinging or jointing the teeth, g, in the manner and for the purpose

the ends of the hollow bridge of the saddle, substantially as set forth.	with the hollow spindle, r, and the rod, s, with its pin, s1, and spiral spring,	Specified
65,996MORTISING MACHINES. C. Brown, Richmond, Ind.,	u, the wholebeing arranged and operating substantially in the manner and	specified. 3(1, The employment of the guides or shields, i, in combination with the sliding bars, f, for the purpose set forth.
assignor to.J. A. Fav & Co., Cincinnati, Ohio.	for the purpose set forth.	
I claim the cutter, t, shatt, p, and pulley, m. attached to the flanged plate,	3d, The bearing, E, in combination with the adjustable and conical split	4th, The arrangement of the treadle P. rod, Q, pawls, m, and ratchet wheels,
n, when said plate is made adjustable upon the bed plate, r, substantially in	ring, g, and ring, g1, or its equivalent, the whole being constructed and ar-	n n, in combination with the disks or cranke, M, connecting rod, L, and arms, H, operating to adjust and retain the roller, as herein set forth.
the manner and for the purpose set forth.	ranged substantially as described. 4th, The splitning, b, in combination with the bearing, E, as and for the	
65,997.—HAND LOOM.—J. D. Browne, Cincinnati, Ohio.	purpose described.	
I claim the cranks, a b, and the rod or bar, D. having a center pin, c, and	20010 0 II - D · · · D II II · · D · ·	I claim the combination and arrangement of the auxiliary jaws, with the clasp, the frustum, and straining screw.
the guide plate, G, in combination with the shaft, C. substantially as herein described.		I also claim the application of the auxiliary jaws to the clasp by means
	ship, Cal. I claim, first, the two pintes. C. C1, placed side by side and operating inde-	substantially as described, viz : by the arms provided with cars and by slots,
65,998. — MACHINE FOR FORMING SPECTACLE FRAMES. —	pendent of each other, either by a hinge or rack and pinion, substantially as	having the supports arranged as set forth.
Chauncey Buckley (assignor to Charles Parker), Meriden, Conn. I claim the eve former or stretcher consisting of a plunger to enter the	berein described.	66,936.—MUCILAGE BOTTLE.—A. M. Olds, New York City,
eye and a bed for the eye to rest upon, having an opening through it of the	2d. The levers, H and H', with the toothed segments, G and G', operating	assignor to J. W. Hawxhurst. Antedated June 12, 1867.
form of the eye desired for the plunger to pass into in combination with the	the plows by means of the independent vertical racks, E and E', substantially	I claim constructing and arranging, in connection with a bottle, an upright
holding pieces, d'd" as set forth.	as and for the purpose described.	adjustable brush operating through its cap, substantially as and for the pur-
1 also claim the combination of the a finitable supporting plates, c, the	66,013.—BLEACHING.—J. B. Fuller, Norwich, Ct., assignor to	poses herein set forth.
bed and the plunger, substantially as described.	self, J. P. Upham, Claremount, N. H., and E. T. Rice, New York.	66,037.—Evaporating Pan.—S. Page, McAllisterville, Pa.
65,999.—Mode of Treating Hydro-carbon Oils.—A. M.	I claim, first, the method herein specified of subjecting the fabric or fibers	1st, I claim the adjustable plate. D', arranged as herein described, and em-
Burke and S Wright. Cleveland, Ohio.	to the operation of elastic squeezing rollers, to produce a c'reulation of the bleaching liquid throughout the fibres of the fabric, substantially as set forth,	played to vary the size of the flue beneath the receiving or skimming pan, in
1st, We claim the herein-described process of consecutively treating oils,	d The method of utilizing the oblemne way contained in the thruis and	the manner and for the purpose specified.
first, by alkali in the still, as specified, and subsequently by the use of acids	fiber after it has been squeezed by elastic rollers by immersing the same in	2d. I claim the combination with the nnishing pan, G, and chamber, H, of the dampers, I J, arranged and operating in the manner and for the purpose
in the agitator as a continuation of the said process, substantially as set forth.	water, as set forth.	set forth.
2d. As a means for carrying out the herein-described process we claim the	66,014.—CHUCKS FOR IRON PLANING.—M. C. Gardner, Ro-	66 038 GYMNASTIC SWING Alonzo P. Payson, San Fran-
valve or pluz, D, provided with suitable devices for operating the same in	chester, N. Y.	cisco. Cal.
combination with the pipe, C, and still, substantially as described.	I claim the sliding jaws, B, B, and the bracket or support, D, back of one	I claim a swing constructed with the supporting arms, C C, and the motive
66,000.—STEAM WATER ELEVATOR.—Martin Burton, Indian-	of the jaws, B, B, to chnck lengthwise the table and at the same time using	levers, E F. substantially as and for the purpose described.
apolis, Ind.	the jaws B B for clucking both crosswise and lengthwise the whole table,	66,039.—GANG PLOW.—J. C. Pfeil, Arenzville, Ill.
1st, I claim the arrangement of the chambers, A and B, and pipes, G H and	is combination substantially as specified and for the purposes set forth.	1st, I claim the lever, a. having the cam, e. attached and arranged to oper-
C, in the manner and for the purpose substantially as set forth.	66,015.—CHURNSJ. C. Gaston, Cincinnati, Chio.	ale in combination with the tongne () and beams Rand R' as shown and
2d, the arrangement of the steam induction pipe, F, water induction pipe, D, Eduction pipe, L, and valves, E M and N, float, I, rod. J, and lever, K,	I claim the guard chamber, C. having one or more openings, c, in its side wall, b. substantially as shown and described.	descriped.
substantially as and for the purpose set forth.		2d, Constructing the crank axles, E, with a tubular portion to fit on the
66,001.—ELECTRO MAGNET.—S. G. Cabell, Quincy, Ill.	66,016.—PLOWS.—Lewis Gibbs, (assignor to Bucher, Gibbs &	66.040 Dypacton Art by Cherlin E Directory N. M. Ch
I claim a compound magnet consisting of two or more helices inclosed in	Co., Canton, Ohio. I claimuniting the bar, A, to the share, B, at the point, a, underneath the	66,040.—BURGLAR ALARM.—Charles E. Pierce, N. Y. City.
soft iron tubes with the tubes so arranged as to separate the helices and both	share, as and for the purpose herein described.	1st, I claim the lever, d, with projection, f, and indicating plate attached when arranged as and for the purpose set for th.
tubes and helices arranged concentrically around a central tube or bar, as	I also claim a cievis made in two parts, with dovetailed recesses cast there.	20, The guards made up of the parts no and a a antheir contraloute one
berein desoribed.	in, so as to fit a dovetall or shoulder formed on the end of the beam and i	sting as described.

JULY 13, 1867.]

Sd. In combination with the guards as described, the slotted plate, m', and knob, p, for the purpose set forch. the vint of the forked lever, r, in combination with the window guards as de-

ath, Theforked lever, r, in combination and a series or cover with sth. In combination with the alarm movements the case or cover with of the contraction with the land minimum contracts the case of events of the contract of the c

66.041.—METHOD OF MAKING ILLUMINATING GAS.—Alonzo

66,041.—METHOD OF MAKING ILLUMINATING GAS.—Alonzo C. Rand, Ubion Mills, Pa. I claim the combination of the tanks, A1 and A2, with the gas holder, J, operated substandally as and for the purposes herein described. 66,042.—CHURN.—James II. Roundey (assignor to himself and Amos fl. Roundey), Oldtown, Me. 1st. I claim the double vibriting dashes, b. b, when constructed and ar-ranged to operate in manner substantially as and for the purpose specified. 24. The arrangement of clurn, A, the double vibrating dashes, b, b, and the vibrating levers, B.B., driven by crank, D, or its equivalent, all arranged to operate in manner substantially as described and show. 66,043.—REIN HOLDER.—J. Scott Russ (assignor to W. N. Zimmer, and W. W. Coggshall), Rensselaerville, N. 1 claim the rein holder, A. A, having a T-shaped tongue, constructed sub-stantially as herein set forth. 66,044.—LightTING AND_EXTINGUISHING GAS BY ELECTRICITY.

stantially as herein set form. 66,044.—LIGHTING AND EXTINGUISHING GAS BY ELECTRICITY.

stantiarly as nerelinised form. 66,044. — LightTING AND EXTINGUISHING GAS BY ELECTRICITY. —E. P. Russell, Manlius, N. Y. Ist, I claim the supplemental gas cock, S, attached to the main pipe, L. when opened and closed by clockwork, substantially as described, for the purpose of lighting the main burner, M. 24, Also the jet, T, for ourning off the match, substantially as and for the purpose set forth. 34, Also the jet, Y, ior combination with gas cock, S, substantially as and for the purposes set forth. 36, Also the jet ver, U, in combination with gas cock, S, substantially as and for the purposes set forth. 36, Also the vire, V, substantially as and for the purposes set forth. 36, Also the vire, V, substantially as and for the purposes set forth. 36, Also the vire, V, substantially as and for the purposes set forth. 36, Also the vire, V, substantially as and for the purposes set forth. 37, The opringe, P, in combination with the preforated arms, O, for the purpose of holding the matches in the position discribed. 37, The opringe, P, in combination with the botts, J J', and arms, H' substantially as and for the purposes set forth. 31, The combination and arrangement substantially as described, of the mith spring, K, gas cock, N, and arms, H' and O, for the purposes set forth. 311, The combination and arrangement substantially as described for the mith spring, K, gas cock, N, and arms, H' and O, for the purposes set forth. 311, The combination and arrangement substantially as described, in combination with strep shuft, F, hollow shaft of worm, F, and thurbo screw, I. 311, Also operating the jet cock, S, by means of the fuse itself, substan-tially as and for the purposes set forth. 324, Also placeng the matches so as to revolve horizontally, substantially as and tor the purposes set forth. 336, Offs.—CLOTHES D PVER.—E. D. Sanford, Baltimore, Md. 337, J', tods, K, supporting rock, composed of the tubular sliding box, 1, col 337, J', tods, K, supporting rock, composed of the substante

1st, I claim the revolving rack, composed of the tubular sliding box, I, collars, JJ, rods, K, supporting ropes, O, and clothes lines. P, or their equivalents, when constructed and operated substantially as and for the purpose described.

described described. 2d. In combination with the sliding rack of a clothes dryer. I claim the weighted box, Q_i construct and employed substantially as described for the dry and bracks of the rack, I JJ'K OP, post, A, socket, B, beil frame, C, and bracks, D, with the rope, N, loops, M, weight, Q, and pin or hook, L, combined and operating substantially as and for the purpose set forth.

forth. 66,046.—CUT-OFF VALVE.—I. M. Scott and W. R. Eckart, Sau Francisco, Cal. 1st, I claim the movable plates on partitions. n. n', avranged be tween and is contact with the main valve, c, and cut-off valve, C, substantially as de-

in contact when the main varies of the structure discongating the plates, nn', from the action of the governor, substantially as discribed, 66,047.—HARVESTER PITMAN.—'T. C. Schring (assignor to Track Habbard). Rachester, N.Y.

governor, substantially as discribed. 66,047.—HARVESTER PITMAN.—'T. C. Schring (assignor to Ira A. Hebbard), Rochester, N.Y. I claim the automatic take-up, constructed substantially as described, being composed of a spring, s, and taper key, k, plug, C, and boxes, B and B, sub-stanticity as described. 66,048.—'Toy PISTOL.—Benjamin Sherwood and Daniel Fitz-

(6) 048.—1'ov Pis'roi.—Benjamin Snerwood and Daniel Pitz-gerald, New Tork City. Ixt. We claim the lever, D. provided with a follower, C, on one end, and used in combination with the curved barrel and trigger, E, as and for the pirpose specified. 2d, The combination of the rubber set in the socket, F, with the curved barrel and lever, D, as and for the purpose specified. 3d, The curved barrel, A, when used in combination with a follower which does not operate outside of the rear of the barrel, hut which operates upon the ballor missile to be sent around the curve in the barrel, as and for the purpose specified.

the ball or missile to be sent around the curve in the barrol, as and for the purpose specified. Ath, The form of the trigger, E. adapted to be laid in between the two halves of the pistol, and not to lice if astening. (60, 049) = WAGON = S. W. Slocumb, Albany, Ill.ist, I claim the circular bearing, C. in combination with the hub, D, when constructed substantially as described. 2d. The combination of the circular bearing, C, hub, D, plate, E, and ring, F, substantially as described. 3d. The circular bearing, C, when attached eccentrically to the axle, and in front of a line passing through the circular bear of the wheel, substantially as described.

scribed. 4th, The arrangement of the bolsters, H, when placed in rear of the axie, and the axie when placed in front of a line passing through the center of the wheels, substantially is described. 66,050.—GRAIN MEASURE.—Harlow C. Smith, Chicago, Ill.

66,050.—(GRAIN SHEASURE—Landson C. Antentated June 22,1897. I chima hall push of similar grain measure, having its bottom composed of the stationary part A, and the binger portion, B, and provided with the spring hooks, D, or their equivalents for attaching the bag, all constructed and arranged to operate as shown and described. 66,051.—WRINCRCH.—Isaac H. Smith, Albany, N. Y. I claim the adjusting screw, E, with flatted or roncave side or sides, a a' a' a'', or their equivalents for the purpose sct forth, substantially as described.

a", or their equivalents for the purpose set forth, substantially as described. 66,052.—UNIVERSAL JOINT.—R.T. Smith, Nashua, N. H. 1 claim the combination of stirrups, B and C, with their bearings, d and e, swinging on the utermediate shaft, g, on which shaft an intermediate cog wheelor cog wheels, or pulley or two pulleys, may be placed, essentially as represented in the accompanying drawings. 66,053.—BUTFONS.—J. R. Spooner, Lowell, Ohio. 1 claim the button fastening above described composed of the bent plate, A' having the teeth, a a a, and the button, B, attached to it, substantially as and for the purpose described. 66,054.—LIGHTENING ROD INSULATOR — Daving Stables-

as and for the purpose described. 66,0.54.— LIGHTNING ROD INSULATOR. — Darius Stebbins (assignor rohimselfand E. Morse), Wallingford, Conn. I claim an insulator constructed substantially in the manner described, so that the rod may be secured directly from the interior of the insulator, as and for the purpose specified. 66,055.— ADVERTISING MACHINE.— I. W. Sylvester, New Work Columnational Machine.

66,055.— ADVERTISING MACHINE. — I. W. Sylvester, New York City. Antedated June 15, 1867. I caim, 1st. The application to advertising of an endless curtain made to revolve automatically, at given intervals quickly so as to attract attention by its motion, and then showly so as to be apparently motionless and to allow of the easy reading of the advertisements. 2nd, The device whereby the power moving the curtain is retarded at regular intervals by means of the arm, J. notching into, passing through and being relieved from the peripher words the clock wheel, substantially as herein described and set forth. 66,056.—Signal For RAILROADS.—E. H. Tobey and Copley A. Nott, Watertown, N.Y.

66,056.—SIGNAL FOR RAILROADS.—D. 11. 1000, and A. Nott, Watertown, N.Y. I claim, ist, The combination of the sliding signal box or other signal device with the mechanism for rotating the same in a horizontal plane in such manner that the suddevice when raised or clevated to a certain point in the signal frame shall be thrown ingear with said mechanism as and for the purpose herein described. 2nd, The combination of the signal device, capable of a sliding and rotary movement and er the arrangement herein described so that the position of the said signal device when in gear with the mechanism is connected as and for the purpose set forth.

2nd, In combination with the pivoted pin, C, which is allowed to swing freely about a pivot, c. I claim the recessed guide block, D, for guiding the pin, C, and link, G, substantially as described. 34, The construction of the block, D, with side jaws, g g, and a groove, g' substantially as and for the purpher described. 4th, The manner with substantially as herein described of ensuring the proper relation of the link to the pin and of coupling two cars together when such cars are moved toward, each other as set torth

such cars are moved toward each other, as set forth. 66,062.—FIRE-PROOF SAFES.—E. H. Ashcroft, Lynn, Mass.

66,062.—FIRE-PROOF SAFES.—F. H. Ashcroft, Lynn, Mass. I claim, ist, in a fire-proof safe the combination of a water space or chamber. I with the ptpus, i, leasing therefrom and surrounding the door constructed and operating in the manner shown and asset forth. 2nd, in a fire-proof safe a liming of ficting, b, or the equivalent thereof, ist and afre-proof safe a liming of ficting, b, or the equivalent thereof, as in a fire-proof safe a liming of ficting, b, or the equivalent thereof, as in a fire-proof safe a liming of ficting, b, or the equivalent thereof, as in a fire-proof safe a liming of ficting, b, or the equivalent thereof, 66,063.—GAGE FOR STEAM GENERATORS.—E. H. Ashcroft, Lynn, Mass. I claim the combination of the valve roat, h, with the valves, i and j, and with the inlets, A and B, and gliss tube, C, constructed, arranged and operat-ing in the manner substantially as shown and described and for the purpose effort.

66,064,—POTATO DIGGER.—L. A. Aspinwall, Albany, N. Y. J. Claim, 1st, The construction of the separators having three rows of fingers in their horizontal range.
 24. The direct connection of the separators with the cranks.
 34. The employment of the roller.
 4th, The combination of the roller with the fork.
 5th, The bent lever. T.
 66.065.—FASTENING THE ENDS OF COTTON THES.—Arthur Properties New Prices.

Barbarin, New Orleans, La. I claim the device, A, when constructed as herein described for the pur-lose set forth. 36,066.—GAS CARBURETOR.—J. A. Bassett, Salem, Mass.

66,066.

66,066.—GAS CARBURETOR.—J. A. Bassett, Salem, Mass. I claim, ist, A gas carbureting chamber surrousded by the casing of iron or other fire proof material, substantially in the manner shown and for the purpose set forth. 24, A gas carbureting chamber having the inlet for hydro-carbon and waste exit arranged substantially as set forth. 66,067.—APPARATUS FOR CARBURETING AND REGULATING THEFLOWOF GAS.—J. A. Bassett, Salem. Mass. 1st, I chim a regulator in combination with a closed carburetor so as to regulate the flow of gas after being carbureted without risk of leakage, sub-stantially as described. 24, The construction of a gas regulator substantially as shown and de-scribed.

scribed. 34, Retaining the diaphragm, H, in place and the gas joint made at the frances, substantially as specified. 4th, A diaphragm prepared with the composition described or its equiva-lent when used for this purpose anbstantially as set forth. 5th, A diaphragm composed of two or more sheets of the sible material en-closing a sheet of malleable metal in the mananer and for the purpose as shown and described.

shown and described. 36,068.—CARBURETING GASES.—J. A. Bassett, Salem, Mass. I claim, ist, The arrangement of a hydro curbon reservoir above and con-nected with a curbureting chamber either with or without capillary, substan-66.068.

nected with a carbureting champer either with or without capital, a second taily as set forth. 24. The overflow receptacle connected with the carbureting chamber for the purpose set forth. 33. The process of carbureting gases for illumination by the method, sub-stantially as specified.

3d, The process of CarDureting gases for finamination by the include, sub-stantially as specified. 66,069.—Mode of CARBURETING GASES FOR HEATING AND ILLUMINATION.—J. A. Bassett, Salem, Mass, 1 claim, 1st, The process of charging gases with the vapor of atomised hy-dro-carbon fluidsfor illuminating and heating purposes, substantially as set

10 rtn. 24. The apparatus as shown and described with the several parts or their equivalents when used for this purpose for curburcting air or gases for il-luminating and heating purpose in the manner substantially as set forth. (66,070.—MANUFACTURE OF ILLUMINATING GAS.—J. A. Bas-

(0),010.— III.AN UTACLOINS OF INDOMINATION OF CONSTRUCTION OF THE ADDALATION OF T

66,071.-MANUFACTURE OF ILLUMINATING GAS.-John A

66,071.—MANUFACTURE OF ILLUMINATING GAS.—John A. Bassett, Salem, Mass., assignor to John H. Irwin and Isaac Simmons.
1st. I claim the manufacture of an illuminating gas from the vapor or gasoline or other volarile hydro-carbon liquid, when the apparatus used is place, i above the point of combustion, and so arranged that the gas is distributed to the burners by its own gravity.
24.1 Claim a series of two or more pans or receptacles for oil, B B, so arranged one above another within the case, A, as to produce a large carburceting surface, and at the same time admit a current of all to pass and in the manner set fortion.
3d. I claim the combination of the pipe, F, and case, A, when so connected that the oil flowing over into the h thom of the carburcter will stop the passage of the gas into the pipe, F, and thereby extinguish the lights before the oil will flow down add pipes.
4th, I claim in combination with inlet forair, D, the pipe, G, when arranged and operating substantially as and for the purpose set forth.
66,072.—CONSTRUCTION OF FIRE-ARMS.—John E. Blake, Norwich, Conn.

wich, Conn. I claim the free arm constructed as described, and provided with notches, ef and g, in the stock, arranged in relation with each other to form the hear-ings for the trunnons of the hammer and trigger, and for the heel of the spring, as shown and described. BASERENTER - William G. A. Bonivill 66,073.—SHOE STRING FASTENER.—William G. A. Bonivill,

66,090. — BURGLAR-ALARM LOCK. — Utering concosts, massing ton, D. C.
1st, I claim the employment of arms, L N O, for the purpose of holding and letting of the alarm arrangement, substantially in the manner set forth.
2st, in combination with the above. I claim the stiding pivot, C, and spring, e, substantially as and not the purpose described.
3st, The circular plate, D, provided with deceptive holes, in combination with arms, L N O, operating substantially as specified.
4th, I claim the arrangement of bolt, A, arms, L N O, spring, M, silding pivot, C, and plate, D, substantially for the purpose described.
65(091. — SPINDLE BEARING. — B, H. Jenks, Bridesburgh, Pa. I claim the combination of the bolter cap and rail, arranged as shown and described.
260.000. Doming STRAM FROME — C Kaiser New York City.

66,073.—SHOE STRING FASTENER.—WITHING G. A. BOHIVIII, Dover, Delaware. I claim the combined fastening, A I, arranged to operate substantially as and for the purpose, set forth. (iii) 074.—II AY SPREADERS.—George E. Burt, Harvard, Mass. Ist, I claim the forks, f, when so operated as to revolve around a common centre, and at the same time to have an oscillatory motion communicated to them by the positive action of mechanism by which their points shall be thrown forward with an accelerated motion when acting upon the hay, and be retracted when throwing off the hay, substantially in the manner set forth. 66.092.—RotART STEAM ENGINE.—C. Kaiser, New York City.
1st. 1 claim the segmental piston, B, moving in the cylinder, A, in combination with the trans versely siling valve, C, constructed and operating substantially as and for the purpose described.
2d, Connecting the piston, B, to the piston wheel, F, in such a manner that it is tree to rock, substantially as and for the purpose set forth.
3d, The silie valve, C, and segmental piston, B, in combination with the jack.et, J, on the cylinder, constructed and operating substantially as and for the purpose set forth.
4d, Connecting the c, can segmental piston, B, in combination with the jack.et, J, on the cylinder, constructed and operating substantially as and for the purpose set forth.
4d, The cutoff, K, in combination with the slide valve, C, segmental piston B, and cylinder, A, constructed and operating substantially as and for the purpose described.
66,093.—MACHINE FOR PRESSING PEAT.—F. Leach, Tioga, N.Y.
1st, 1 claim the combination of the receiving box, A, with the mold box, B, stationary pluuger. D, and pressing plunger, C, when said mold box, Substantially as set forth.
2d, The combination of the means, K & cylinders, FI. pressing plunger, C, mold box, B, with its stationary plunger, D, and receiving box, substantially as set of the sources or under different pressure, essentially as specified.
3d The combination, with the ram, K, of the cylinder and its pressing plunger, et outdress or pressures by separate and distinct valves, geured together for operation of the mold box as pressing plungers under "tilferent heads or pressures by separate and distinct valves, geured together for operation by the mold box and pressing plungers under "tilferent heads or pressures by separate and distinct valves, geured together for operation by the mold box and pressing plungers.essentially as herelines of the setting substantially as herelines of the setting substheres of the settine

forth. 24, so arranging the revolving shaft, L, that it shall pass eccentrically through the dead centre. U and receiving motion from the wheel, W, through the plaion, P, shall communicate it to the fork, f, substantially in the manner the plaion, P. (1997).

The painton, summer commercial sectors in the sectors of the combination of the shaft, L, placed eccentrically to the centre of Sa, The combination of the shaft, L, placed eccentrically to the centre of the rotating heads, b, with the arms, d, shafts, a, and forks, f, substantially in the manner set forth. 4th, The balancing of the tedder by the rake, substantially as described.

66,075.—STEAM DRYING CYLINDERS.—H. W. Butterworth,

Divorted To the part of the follower, D, and a screw stud turning in the follower and projecting through stands, substantially as and for the purpose described.

66,076.—DUMPING WAGONS.—Nich. Clute, Schenectady, N.Y. I claim the plates on the bed frame, in combination with the rollers con-ected to the body or movable frame or their equivalents, substantially as

rected to the body or movable frame or their equivalence, success described. I also claim the stops at the rear end of the moveable frame, provided with catches to lock it to the bottom frame, substantially as described. I also claim in combination with the plates and rollers above claimed the crank shaft, pinion and rack fastened to the movable frame. Prive TOP HOLDING PAINT.—Frederick

1st, I claim the conducting tubes divided into two parts, T and T', in com-bination with the krife, K, working between them substantially as described 2d, The knife, K, consisting of a thin plate of sheet inetal provided with holes for the dough to pas through its house, substantially as described. dough can again pass hrough this holes, substantially as described. 3d The outsire tubes or thimbles working an the lower sections, T, of the conducting tubes, and operated sub tantially as described. 4th, The docker, consisting of the plates, o p r and s, the prickers, v, stamper, W, and spiral springs. S and u, all combined, constructed and op-erating substantially as described. Stamp a row of crackers at one operation, substantially as described. 5th, I claim the mechanism moved by a crank on the main driving shaft, by means of which an inter mittent motion is given to the grooved rollers, the endless apron and the 4 ocker, substantially as described. 6th, I also claim in combination with the 4 ocker the thin plate, R, con-structed, arranged and operating substantially as described.

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66,083 -- HOT-AIR FURNACE.- F. C. Hesse, Cincinnati, Ohio.

66,083 --HOTAIR FURNACE.-F'. C. Hesse, Cincinnati, Ohio. 1st, 1 clain the annular supply chamber, 1, provided with the dampers, f', when secured to the bed plate, A, or its equivalent, having the perforations, e, substantially as and for the purpose specified. 24, The casing, F, having periorations, a' the incline perforated plate, b, attached thereto, and the displargam, K', all in combination with the base plate, A, with perforations, a, the inner wall, B', of the dead air chamber and the top plate, C, substantially as described. 36, The base plate, A, walls, B B', and top plate, C, in combination with the trep ot, G, perforated fre back, H, displargams, K K', warm air tubes, L, casing, F, hot air reservoir, N, smoke pipes, O and Q, smoke stack, P, and (amper, P'', constructed and arranged substantially as and for the purpose specified.

specified. 4th. The hot air reservoir, N. smoke pipe, O. smoke-stack, P. having an opening, P. near its bottom, and the damper, P. for closing the same, in combination with the smoke pipe, Q. substantially as described. 66,084.—CURTAIN FIXTURE.—Jacob J. Hessler, Reading, Pa. I claim the sliding knob, B. working through the slot, b, of the barrel, A. and arranged in relation with the rode, cand optical spring, d. contained in the said barrel, substantially as and for the purpose specified. 66,082.—Demonstration strate the rode, cand optical spring, d. contained in the said barrel, substantially as and for the purpose specified.

66,085.-ROTARY STEAM ENGINE.-William H. Holland,

66,085.—ROTARY STEAM ENGINE.—William H. Holland, Chelsea, Mass.
1st, I claim the chambered drum, E, and journals, F F, when constructed and operating substantially as described and for the purgese set forth.
24. I claim the groove or d, pression, x, x, on the drum on each side of the piston, as and for the purpose described.
3d, I claim the grangement of the packing on the upper portion of the abutment, D, as described.
4th, J claim the grangement of the packing on the upper portion of the abutment, B, as described.
4th, J claim the grangement of the packing piece, w, placed at the bot-tom of the abutment groove for the purpose of pucking the space between the end of the abutment and the drum, E, and also between the drum and the eylinder over the packing pirges as described.
5th, The arrangement of the spring, o, with the abutment, D, drum, E, and groove or depression, x, as and for the purpose set forth.
6th, The exhaust passage, p, one or more placed in the steam just previous to its being raised to allow the piston to pass.
7th, I claim the arrangement of the pixton pass.
7th, I claim the arrangement of the pass.
7th, I claim the arrangement of the upper tree, C, and flanges, a, in combina-tion.

I claim the arrangement of the upper tree, C, and flanges, a, in combina-ion with the lower tree, A, when combined with the usual adjuncts to form harness pad. 6.087.—BALE-BAND TIGHTENER.—Platt C. Ingersoll (asignor

The hume of and H. F. Doughe: ty). Greenpoint, N. Y. In Stoori (and the constraint of the constrain

and with the lever, A, substantially as herein set forth rot the purpose specified.
being and the lever, A, substantially as herein set forth rot the purpose specified.
being and the lever, A, substantially as herein set forth.
being and the lever and the set of the purpose specified.
being and the lever, A, come ince in relation with the set of the rotating hopper, C, substantially as and for the purpose specified.
being and the lever and the set of the forth the set of the lever and the set of the forth the set of the lever and the set of the purpose specified.
being and the lever and the set of the set of the rotating hopper, C, substantially as and for the purpose specified.
being and the transverse soperation of the set of the set of the rotating hopper, C, substantially as and for the purpose specified.
being and the transverse soperation of the set of the set of the rotating in opper, C, substantially as and for the purpose specified.
being and the transverse soperation of the set of the purpose specified.
being the differential rin, i, of the furrowing wheel, F, substantially as and for the purpose specified.
being the set of the s

-Burglar-Alarm Lock.-George Jacobs, Washing-

66.092.—ROTARY STEAM ENGINE.—C. Kaiser, New York City.

for operation by the mold box and pressing plunger, substantially as not ex-set forth. 5th, The valve, R, constructed for operation and adjustment, essentially as shown and described. 66,094.—CURTAIN FIXTURE.—Chapman Lee and Joseph

Pandler, Washington, D. C. Ise, We claim the combination of a gear wheel and pinion with the cord wheel, for operating a window-curtain rolier, substantially in the manner set

66.087.-

66.090.

lag apron, F o r F1, a vertically flexible character, substantially a sherein set

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forth. 5th, The combination with a stationary arranged endless lag belt or apron, 5th, The combination with a stationary arranged to travel at a reduced veloci-ty, and relatively to the belt, E, as specified, and made vertically adjustable in relation thereto by means of lifting came, G Gl, or other suitable devices, essentially as specified. 6th, The combination with an endless lag belt or apron, E, having infiexi-ble rails or guides, c, of an endless lag belt, F or FI, with its rails or guides, cl, made in sections and flexible, said aprons, E ant F or FI, being arranged and operating relatively to each other, substantially as described. 660,098.—MACHINE FOR SETTING CARD TEETH.—David Mc-Farlay. Worseter Mass

00,000.—In acting For Service service

forth. 2d, The combination of the feed lever, D, spring clamping lever, E, and wire holding lever, F. with the clamp, a substantially as set forth. 3d, The combination with lever, D, of the fulerum pin or stud, D, collar, m, and adjust ing screw, p, or equival.nt means for making the collar adjusta-ble, substant faily as and for the purposes set forth. 4tb, In a machine such as described I claim the construction and arrange-ment of the lever for producing the feed substantially as described. 5tb, The combination of the doubler place, K, and crowner bar, R, with the doubler, P, and doubler bar, O, made adjustable as and for the purposes set forth.

the doubler, P, and doubler bar, O, made adjustable as and for the parpoint set forth. 6th, The combination with the wing plate, T, crowner bar, R, and cam block, 17, of the compound or three-functioned cam, V, all constructed and operating in relation to one another and to the doubler plate, K, substan-tially as and for the purposes set forth. 7th, The combination with the clamp, a, of the bow or plate spring, g, and spring spring. h, arranged for joint operation substantially as and for the pur-posesset forth. 8th. The combination with the perforating bar of the mechanism for oper-

posesset forth, 8th, The combination with the perforating bar of the mechanism for oper-ating the same, arranged as herein described, so that the said bar may be ele-vated before its forward motion is imparted, for the purposes stated. 9th, The combination with the upright eogs, 42 and 43 and double inclined and grooved cam, 44, of the holding box, 46, substantially as and for the pur-poses set forth.

poses set forth. 10th, The combination of the ratchet wheel, 41, of the retaining dog, 45, feeding dogs, 42 and 43, double inclined and grooved cam, 44, and holding box, 45, arranged for joint operation substantially as and for the purposes set forth. box, 40, arranged for joint operation substanting _____ forth. 11th, The combination with the stoplever, D', of the stop guard, F', sub-11th, The combination with the purposes set forth.

stantially as and for the purpose set forth. 66,09.).—Boot LACING DEVICE.—A. McKenney, Portland,

Me., and S. Carpenter, Patten, Mc. We claim a shoe lacing device constructed to operate substantially as set

forth. 66,100.—SPIKE.—John McMurtry, Lexington, Ky. I claim the within described spike, consisting simply of a single shank pro-vided with a heveled or sloping end and shoulder, said shoulder and beveled end being upon the same side, as an effort he purpose set forth and described. 66,101.—VIAUTACTURE: OF SAFETY MATCHES.—Lotto P.

Meyer, Bethlehem, Pa. Iclaim, 1st, The application of certain ingredients substantially such as herein specified, for the preparation of a compound for safety matches and for the purpose specified (herein. 24, The application of certain ingrepients substantially such as herein spe-cified, for the preparation of special surfaces for the ignition of safety matches and for the purpose specified within, 66,102.—MAKING PHOTOGRAPHIC TRANSFERS.—Arthur G. Mowan South Bergen N. J.

00,102.—MAKING PHOTOGRAPHIC TRANSFERS.—Affilit G. Mowan.South Bergen, N.J.
I claim, 1st, The combined process hereinbefore described for making photographic transfes by means of the several methods, preparations, applications, and compositions above described, or their equivalents.
2d, 1 also claim the preparation of the paper by a batb of whey or lactine as above described when u ed in combination with the other elements of the process above described or their equivalents.
3d, The preparation and application of the coating of gelatine or its equivalent and permanganate of potassa, for the purposes above described, whether the same is used in combination with the other elements of my entire process or is used separately therefrom as a material to be acted on by the light and subsequently to be dissolved and removed where it has not been sonce the uppon.

The process of is been separately interior is a state of a double term over where it has not been so noted upon. Ath, The uce of a paper so prepared and coated as above described in the formation of the impression thereon by the action of the light according to the usual modes. Sth, The preparation and the application of the second coating above de-scribed, composed of Judes bitumen, white wax, and Burgundy pitch, or the usual modes. Sth, The preparation and the application of the second coating above de-scribed, composed of Judes bitumen, white wax, and Burgundy pitch, or their equivalents, without grease or oil. for the purposes above described, whether the same is used in combination with the other elements of my en-tire grocess or is used separately therefrom, as a material to give color to the picture on the paper and to act as a medium for transferring it. 6th, The removal of both the coatings above described from the parts or spaces not at ted on by the light, by placing the paper so prepared and coat-ed with the materials above described, or their equivalents, in a bath of cold water in the manner above described, and releating it in the manner above described, orby any equivalent method of solution and removal. 7th, The impressing of a photographic picture or design or printed or writ-ten inatter upon stone, wood, or metal, from a paper pmof made and pre-pared as above described, for the purpose of engraving, lithographing, etch-ing, or preparing plates for printing such picture, design, or printed or writ-ten matter. 66,103.—SPRING HINGE.—A. M. Olds, New York City. An-

66,103.—Spring Hines.—A. M. Olds, New York City. An-

tedated June 5. 1867. I claim the hinge constructed substantially as described. 66,104.—RING TRAVELERS FOR SPINNING.—Henry T. Potter,

10,104.— RING TRAYEDDATE CONTROL OF A CON

-Boa'r-DETACHING TACKLE.-Carl H. Ramsten, Carls

krona, Sweden. Iclaim a tackle block, D. provided with a locking lever, E, to a hinged or ploted detaching hook, S, and fair-leaders, I, all arranged substantially as learch beil and for operation in connection with or by, a rope or chain, H, sub-tantially as specified. stantially as specified. 66,106.—STIRRUP.—Nathan L. Revere, Worcester, Mass.

I claim the combination with the stirrup, E, and strap, A, of the case B (having ears, c c, and a pin, b), spiral spring, e, piston rol, C, and head, D, said parts being constructed and arranged to operate in relation to each other substantially as and for the purposes set forth.

66,107.-BOLT CUTTER.-J. Strayer and T. Hazelhurst, South Bend. Ind. We claim, 1st, The bolts, E, in combination with the cutters, C, and springs,

G, arranged and operated substantially as above described. 2d, The combination of the springs, G, cutters, C, chuck, **B**, and bolts, E, substantially in the manner and for ihe purposes set forth. 66,108.—GATE.—Richard Tattershall and John A. Burchard,

Beloit, Wis. We claim, 1st, broadly, the oscillating circular plane, E, for the purpos

set forth. 2d, A gate constructed subtantially as described, in combination with the double sliding hinge, C C B, the oscillating circular plane, E, lever, 1, the erank levers, L L roas, K K bell-crank levers, S S, the pulley, H, standard, A, and sell-fastening latch, W, arranged and operating as and for the purpose mentiod

specified. 66,109.—PLOW.—James Wallace, Sheridan, Pa. I claim the jointed rod, D D, used in combination with the beam and the handle, H, as and for the purpose specified. 66,110.—MAGAZINE FIREARM.—H.F. Wheeler, Boston, Mass.

66,110.—MAGAZINE FIRFARM.—H. F. Wheeler, Boston, Mass. Iclaim, 1st, A mazazine pistol in which the cartridges are arranged in a vertical or approximately vertical chamber forming the handle, substantially as shown and described. 2d, I also claim effecting the movement of the cartridges to bring each into position to be tired by the vertical ratchet bar, x, carrying the cartridges transversely to itself, substantially as set forth. 3d. The flange groove or grooves and fraction surface or surfaces forguid-ing and supporting the cartridges, substantially as described. 4th, The construction and arrangement of the expanding and contracting trigger lever, by which as the resistance to the forward movement of the barrel increases, the length of the acting arm of the lever decreases, substan-tially as shown and described. 66,111.—DRIVING BELT.—T. R. White and W. G. Bedford, Philadelphia, Pa. Antedated June 15, 1867. 50,134.-I.ALEIDOSCOPE -JOHN EATISINAW, E. Greenwich, K. I. 1st, I claim so constructing a kaleidoscope that bosh its ends maybe used, as described. 2d. The object glass provided with lines, G, substantially as described and for the purpose set forth. 3d, Covering the object glass, Fig. 1, with figured paper or fabric, as and for the purpose Serolect. 4th, The object glass, Fig. 2, proviedd with hole, D, in its covering to adapt it for use as the eye glass, substantially as described. 5th, The windows, E, arranged substantially as and for the purpose set forth. and the first of steam, is the second f, f, when arranged in combination with the valve, o, in the induced set of the purposes specified. 66,157.—STEAM ENGINE OIL CUPS.—F. Lunkenheimer, Cin-10,101.—DILAM LANGEL CLASSING of the parts marked A, A', ist, f claim the hand wheel nut and cap formed of the parts marked A, A', and A'', arranged and combined substantially as described. 2d, The screwbolt, B, attached to the bottom of the chamber. C, by which the cup and parts attached to the cup are confined, substantially as shown forth The detached framework carrying the object glass, Fig. 1, as and for urpose described. the purpose described. 7th, As an article of manufacture the design paper adapted for use in con-junction with a kaleidoscope, as herein described and for the purpose set 7th, As an article of manual schemen described and for the purpose set forth. As an article of manual schemen described and for the purpose set forth. Sh, In combination with a kaleidoscope the pictures or designs and slotted receptacles therefor, substantially as described and for the purpose set forth. 65,135.— HARVESTER.—Jonathan Emery. Cenar Falls, Iowa. I claim the flexible swinging curtain, H, arranged in the relation to the binders station and to the endlessconveyer, G, and endless compressing apron F, substantially as and for the purpose set forth. 2d, The rotating platform, K, for supporting one or more binders in com-bination with a receptacle, E, into which the cut grain is delivered, substan-tially as described. We claim a driving belt composed of wires corrugated or bent as described and threads of cotton or other fibrous material interwoven as set forth. 66,158.-Confection.-E. C. Maltby and Edward Smith, Northford, Conn. We claim a new and useful confection, composed of the meat of coccanut prepared in the manner substantially as herein set forth. 66,112.-Guide FOR CARDING MACHINES.-F. W. and E. T. 66,112.—GUIDE FOR CARDING MACHINES.—F. W. and E. T. Ab rithe, Hanover, Conn.
We claim, 1st, The guide plate, A, perforated and slotted substantially in the manner herein shown and described and for the purposesset forth.
2d, The combination of the roller, E. with the guide plate, A, substantially as herein shown and described and for the purpose set orth.
66,113.—GATE.—David D. Baker, West Alexandria, Ohio.
We claim the combination and arrangement of the levers, c.d., posts, e.f., clasp bingers, X, and slot bar, 1, when constructed, sranged, and operating conformation in the romearting of the guide plate, A, waventy, Md.
66,114.—Tif1.L.COUPLING.—Frederick Ballard, Waverly, Md. 66,159,-DITCHING MACHINE.-Chelton Matheny, Greens-66,159.—DITCHING MACHINE.—Chelton Matheny, Greensburg, mdiana.
61. John Matheny, J. J. and a series of radial knives, F., the latter being automatically advanced and series of radial knives, F., the latter being automatically advanced and seria of radial knives, F., the latter being automatically advanced and series of radial knives, F., the latter being automatically advanced and series of radial knives, F., the latter being automatically advanced and series of radial knives, F., the latter being automatically advanced and series of radial knives, F., the latter being automatically advanced and series of radial knives, F., the latter being automatically advanced and series of radial knives, F., and I., as and for the purpose here in described in combination with the wheel, D, Knives, F., and cutters, J. J., for the wheel of the excavated earth in the manner explained.
3d, I also clain the pair of revolving cutters or coulters, M, operating as described and for the purpose set forth, when used in combination with the aforesaid wheel, D, J. J., Knives, F, and cans, H, and L., ath, In combination with the wreet, I, J. J. J., knives, F, and cutters, H, I, I clain the shovel or scoop, N, for the object herein explained and set forth.
66,160.—SASH FASTENER.—W. W. Maughlin, Baltimore, Md. I claim, first, the latch or lever, A, provided with the offset, e., agranged bination with a receptacle, E, into which the cut grain is derivered, successful taily as described.
3d, The combination of the rotating binders station and the endless conveyor, G, and endless compressing apron, F, substantially in the manner and for the purpose described.
4th. The arrangement of the gears, chains and cranks for operating the aprons, F G, and the slokle, Q, directly from the main supporting axle and wheel, B Bl B2, substantially as shown and described.
5th, The arrangement of the protos of the arms. P P, on cash side of the driving wheel, B' and below the axle in combination with the latch lever, p, rock shaft, r, arms, r', and link, u, arranged and operating as described and shown. I claim, ist, The combination of the spring, G, box, F, and pressure bolt, , constructed and operating in the manner and for the purpose specified. 2d, The soft metal bushing, K, provided with a square opening, k, and used noombination with the bolt, D, and tubular eye, I', of the thill iron, suo-antially as described. E in combination with the bôlt, D, and tubular eye, I', of the thill iron, sub-stantially as described. 66,115.—PICTURE HOLDER.—Albro Barber, Port Byron, Ill. I claim a holder for photographic or other pictures in which a series of frames.for the pictures is so arranged that by moving or trawing one end of the box out or in, such frames in regular order and succession will be brought in position for being viewed, substantially as described. 66,116.—CASTER.—James T. Barnes, Hudson City, N. J. Ist, I claim the axle, A, supporting two wheels, B, and having seered at its center and at right angles thereto the arm, C, supporting the shank, D, constructed as described for the purpose specified. 24, I further cla m the securing of the socket or sheath, E, in the le zor bot-tom of the article to which the caster is applied, by means of thespurs, d, projecting laterally from the cylindrical part, a, and fitted in the hole, c, which necevices said part, a, substantially as shown and described. 66,117.—ROOFING—E. Becker, Cincinnati, Ohio. I claim the curved edge and doubled over edge of the two overlapping edges of the metallic plates, A, substantially as and for the purposed scribed. rock shaft, r, arms, r v, and nna, u, arranged and openang a start and shown. 6th, A rotating binders station, in combination with a harvester. 66,136.—SAFETY RAILROAD SWITCH.—B. F. Farrar (assignor to himself and D. B. Wesson), Springfield, Mass. I claim a railroad switch constructed and arranged that if left in a wrong position, the wheels of a passing train will return the rails temporarily to the therproperposition and the train continue upon the main track, substan-tially as herein set forth. 66 127 —MANUFACTURE OF WHITE LEAD.—T. M. and A. G. 105, 100.—SASHI FASTENER.— W. W. Malighlin, Baltimore, Md. I claim, first, the latch or lever, A, provided with the offset, c, arranged to work underneath the sash bead, and in such manner as to avoid the cut-ting away or defacing of the jamb or casing outside of said bead, substan-tially as described. 2d, The latch or lever, A, provided with the offset, c, and lugs or clamp a, a', arranged and operating as described. 6f, 161.—DAMPER FOR STEAM BOILER.—Henry McDonough, New York N.2. 66,137 --MANUFACTURE OF WHITE LEAD.-T. M. and A. G. New York, N. Y. I claim the Valves, D and E, arranged and operating substantially as here-n shown and described, in combination with a tubular steam boiler for the purposes specified. Felt, Brooklyn, N. Y., assignor to William Bell, New York City. We claim thetreatment of chloride of lead in the manner and for the pur- we contain unscreament of chloride of lead in the manner and for the purpose, substantially as herein described.
 66,138.—MANUFACTURE OF WHITE LEAD.—Thomas M. and Ambrose G. Fell, Brooklyn, N.Y., assignor to William Bell, N.Y. City. We claim the treatment of sails of lead other than, carbonates, and the carbonate, of baryts, in the manner and for the purpose, substantially as described. purposes specified. I claum the valves, E, opened and closed by means of the weight, d, and chains, s, s', operated from the valve, D, by the rod, C, as herein set forth for the purpose specifies. D, by the rod, \clubsuit , as herein set forth I elaim 'h partition l.late, C', in combination with the values for the purpose set forth.

66,118.—BLACKSMITH STRIKERS.—George Bell (assignor to himself and Jonathan Strine), Martinsburg, West Va. I claim the combination of the spring, R, adjusting device, W, frame, V, ammer and lugs, C J, chain, K, and treadle, L, all constructed and arranged s described.

as described. 66,119.—Extracting Grease and Oils from Animal and 00,119.—EXTRACTING GREASE AND OILS FROM ANIMAL AND VRGRTABLE SUBSTANCES.—Joseph Besso. Philadelphia, Pa. lst, I claim the improved apparatus consisting of the reservoir, A, the force pump, B, the retorts, C C, the alembic, D, the condensing vessels, E F, the receiving vessels, F I F2, the casometer, G. and the steam pipe, h, com-bined, arranged, and operating substantially as and for the purpose herein described.

billed, arranged, and operating excomments in the reservoir, A. and the re-described. 2d, Theforespump, B, in combination with the reservoir, A. and the re-torts, C C, arranged and operating as and for the purpose herein set forth. 3d, The gasometer, G, in combination with the pipe, g, and the retorts, C C, arranged as and for the purposes specified 66,120.—TINNER'S RULE — Thomas Bigelow, Elkhart, Ind. 66.120.-

I claim the arrangement and construction of a rule comprising a system of scales, in the manner as herein set for the purpose specified. 66,121.—MACHINE FOR MAKING STARCH, PASTE, SIZE, ETC.

66,121.—MACHINE FOR MAKING STARCH, PASTE, SIZE, ETC. .-C.H. Blanchard, Boston, Mass. Iclaim, ist, The combination of the perforated diaphragms, OO, of the mixing tanks with the revolving brushes, K K K, substantially as described and for the purpose set forth. estimetry that receptore and the start of the shafts, I I, of the stirrers that receptore and arrangement of the hollow steam-heated cooking of The combination and arrangement of the purpose set forth. "All The combination and arrangement of the pollow steam-heated cooking rolls, S substantially as described and for the purpose set forth. "At the combination and arrangement of the cooking tank, R, therolls, S s, and the scrapers, T, substantially as described and for the purpose set forth.

10rtn. 5th, The general construction, combination and arrangement of the several parts of the machine, substantially as described and for the purpose

set forth. 66,122.—CHURN.—Frank Blecka, Elgin, Ill. I claim agitators, C C "pinions, L L, 'and wheel, T, when used in combina-tion with a rotating case, substantially as and for the purpose set forth. 66,123.—COMBINED SEEDER AND FERTILIZER.—Henry Bourn, New York and the State State

Mendon, Mich. I claim, 1st, In combination with the driving bevel gear wheel, M, the the shaft, J, provided with the bevel pinion, L, and crank wheels, i and S, for the purpose of operating the agitating mechanism in both hoppers from the same shaft, substantially as set forth. 2d, The slide, F, provided with the brushes, K K, and moving the same across the escape orifice in the bottom of the hopper, and for the purpose set forth

2d, The slide, F, provided with the brushes, K K, and moving the same across the escape or lide in the bottom of the hopper, and for the purpose set forth. 3d, The triangular slide, P, placed in the open bottom of the hopper and nearly filling the area of the same and provided with the spikes, Q, as and for the purposense to forth. 4th, Haughur one side of the hopper upon hinges or other joints so that the area of the hopper bottom may be increased or dsminished, in the manner and for the purposes set forth. 5th, The seat, T, adjustable forward and backward, as set forth, in combi-nation with the main frame, A, and hoppers, D O, so that the weight of the driver may be caused to balance the machine, as set forth.

hation with the man i frame, A, and hoppers, D 0, so that the weight of the driver may be caused to balance the machine, as set forth. 66,124.—MACHINE FOR UNHAIRING HIDES.—Elias Brock, El-lenville, N, Y. 1st. I claim the combination of the pair of feed rollers, D E, with the knife cylinder, B, of an unbairing machine, substantially as herein shown and de-scribed and for the purpose set forth. 2d, Arranging the guide roller, F, knife cylinder, B, and feed rollers, D E, with each other and with the frame, A, of the machine, substantially in the manner herein shown and described, so that the hides or leather shall be erawn over the knife cylinder; B, in a direction opposite to that in which thesurface of the said Infie cylinder is moving. 36, The combination of the roller, I, with the frame, G to which the apron, E, is attached, substantially as herein shown and described and for the pur-pose set forth. 4th, Arranging the gearing, K L M N O P R, substantially in the manner herein shown and describe , for the purpose of communicating motion from the knife cylinder, B, to the feed rollers, D E.

herein shown and describe, for the purpose of communicating motion from the knife cylinder, B, to the feed rollers, DE. 66,125.—MACHINE FOR SOFTENING OR DRESSING LEATHER

66,125.—MACHINE FOR SOFTENING OR DRESSING LEATHER OR SKINS.—F.J. Burcham, Racine, Wis. 1st, I claim the combination of the quadruple crank, C, pitman, D, levers, E, and connecting rods, G, with each other and with the stretching frame to which the sk in is attached, substantially as herein shown and described and for the purpose set forth. 2d. The stretching frame, H, constructed and operated substantially as herein shown and described and for the purpose set forth. 3d. The stretching rame, N, constructed and operated substantially as herein shown and described and for the purpose set forth. 3d. The stretching rame, N, constructed and operated substantially as herein shown and described and for the purpose set forth. 5th, The clamp, I, constructed and arranged substantially as herein shown and described and for the purpose set forth. 5th, The clamp, I, constructed and arranged substantially as herein shown and described, when used for the purpose of attaching skins to a stretching frame,

3d, The stretching rrame, N, constructed and operated substantially as herein shown and described and for the purpose set forth. 4th, The clamp, L, constructed and arranged substantially as herein shown and described, when used for the purpose set forth. frame, 6th, The clamp, L, constructed substantially as herein shown and described, when used for the purpose of attaching skins to a stretching frame. 6th, The clamp, L, constructed substantially as herein shown and described. We law then used for the purpose of attaching skins to a stretching frame. 6th, The clamp, L, constructed substantially as herein shown and described. We can be an operate substantially as herein shown and described attaching skins to a stretching frame. 6th, The clamp, L, constructed substantially as herein shown and described. 6th, The clamp, L, constructed substantially as herein shown and described. 6th, The clamp, L, constructed substantially as herein shown and described. 6th, The clamp, L, constructed substantially as herein shown and described. 6th, The clamp, L, constructed substantially as herein shown and described. 6th, The clamp, L, constructed substantially as herein shown and described. 6th, The clamp, L, constructed substantially as herein shown and described. 6th, The clamp, L, constructed substantially as herein shown and described. 6th, The clamp, L, constructed substantially as herein shown and described. 6th, The clamp, L, constructed substantially as herein shown and described. 6th, The clamp, L, constructed substantially as herein shown and described. 6th, The clamp, L, constructed substantially as herein shown and described. 6th, The clamp, L, constructed substantially as herein shown and described. 6th, The clamp, L, constructed substantially as herein shown and clamp, L, cons

eta, The clamp, L. constructed substantially as herein shown and described, when used for the purpose of attaching skins to a stretching frame.
7th, The double spring-hook, M, constructed subsantially as herein shown and described and for the purpose set forth.
66,126.—KNIFE CLEANER.—W. J. Burge, Atchison, Kansas.
I claim in a kuffe cleaner the combination of the handle, A, having a cavity, D, closed by a stopper, C, and the rubbing surface or layer, B, arranged, constructed and operating in the manner as shown and described and for the purpose set forth.
66,127.—University Decider of the forther of the purpose set forth. purpose: 66.127.--FUNNEL.-Frederick Catlin, Watertown, Conn.

Iclaim the construction and arrangement of the funnel, A, having detacha-ble throat, B, strainers, E F, valve, C, and stand, D, substantially as de-scribed for the purpose specified. 66,128.—Cortron CUL/TIVATOR.—G. W. Chambers and Isham

Washam, Talladega, Ala. We claim the arrangement of the lever, d, and the sliding cross piece, G, o engage and disengage the bevel gear, b b, in the manner and for the pur-lose percein specified.

to engage and use ngage the vever year, b b, in the manner and for the pur-pose herein specified. 66,129.—PORTABLE FENCE.—Peter Chandler, Olney, III. ist, I claim the pin, b, in combination with the braces, B, and battens, C, substantially as and for the purpose described. 2d, in combination with the elements of the above, I claim the arrange-ment of the battens, D E, the tormer being provided with the notches, d d, and retaining pin, d2, and the latter with slotted projections, e e', as and for the purpose set forth. 66,130.—MANUFACTURE OF BLANKS FOR CARRIAGE THILL SHACKLES.—J. B. Clark, Plantsville, Conn. ist, I claim the carriage shaft shackle blank so formed between dies that the body, b, of the blank is curved, substantially as herein shown and de-scribed.

the body, b, of the blank is curred, substanting in section. 2d, The dies, A and B, for making the said blank when so constructed and arranged as to form the rounded corners and the curred body of the said blank, substantially as herein shown and described. 66,131.—FRAME FOR STRETCHING WET LEATHER.—1. W. Dawson, Newark, N. J. I claim the combination and arrangement of the longituninal bars, A and B, cross bars, C and D, inclined pivoted bar, E, and inclined stationary bar, be, with each other, substantially as herein shown and described and for the numeros set orth t orth

D2, With each other, Substantiany as herein shown and described and for the purpose set orth.
66,132.—METHOD OF TRANSFERRING CARS FROM ONE TRACK TO ANOTHER.—John Denhard, Beading, Pa.
I claim therails, A d, of the main track and the rails, B B,' of a turn out or skiing in combination with the stationery inclined bar, e, and the movable bars, D D,' the whole being constructed substantially in the manner and for the purpose described.
66,133.—DRAIN PLOW.—R. W. Downman, Georgetown, D. C.
I claim the attachment of the double cone roller, B, as herein described to

I claim the attachment of the double cone roller, B, as herein described to the ordinary drain plow, in the manner and for the purposes above stated. 66,134.-KALEIDOSCOPE -John Earnshaw, E. Greenwich, R. I.

66,139.—MANUFACTURE OF WHITE LEAD.—T. M. Fell, and A. G. Fell, Brooklyn, N. Y., assignor to to themselves and William Bell, New York City. Anitedated Ap 1111, 1867. We claim the treatment of chloride of lead in the manner and for the pur-pose substantially as herein described. 66,140.—MODE OF TREATING LEAD SALTS FOR THE MANU-

(JULY 13, 1867

FACTURE OF WITELEAD. T. M. Fell, and A. G. Fell, Brooklyn, N. Y. assignor to themselves and William Bell, New York City. Antedated April 11, 1567. We claim the treatment of oxide of lead with the chloride of sodium or its equivalent, substantially as described for the purpose of producing a superior chloride or any oxy-chloride of lead. 66,141.—MACHINE FOR CUTTING CORKS.—L. W. Felt, Keene,

N.H. 1st, lciaim the cutter bars, F F, having the stops, F, F', in combination with the fixed collar, I, the reciprocating collar, s', the slots, tt, ring, s, and clamp, q, attached to the rod, P, and the beveled projections x, all con-structed and operating substantially as herein described and for the purpose success

set forth. 2a, The reciprocating rod, g, in combination with the levers, e and d, for discharging the cork when cut from the cutters, substantially as herein de-scribed and set forth.

66,142.—Amalgamator.—J. B. Forissier, New York City. So, TAR. — TRADUCTION. — 0. D. POINSIER, NEW IORK CITY. Ist, I claim the arrangement of the circular revolving and annular sta-tionary pans, the same being constructed as described, so that the water containing the ore may fall from top to bottom of the appiratus in a zig-zag line, and be thus distributed over the whole surface of the mercury, as set forth

forth. 2d, Thestirrers, L, when secured to the underside of the pans, G and H, and when they are constructed and operate substantially as and for the pur-pose herein shown and described. 3d, An amalgamator made and operating substantially as herein shown and described.

described. 66,143.—BAND CUTTER FOR THRESHING MACHINE.—W. P. French, Washington, Iowa. I claim the double adjustability caused by the means substantially herein set forth.

set form. 66,144.—SHOVEL PLOW.—Daniel Gilbert, Carbondale, III. First, I claim forming the shovel or plow plate, F, with a groove or notch in the under side of its upper part to fit moon the bar, E, substantially as hereing shown and described and for the purpose set forth. Second, The combination and arrangement of the bar, E, with the upright C, and horizontal or ground bar, D, substantially as herein shown and de-scribed and for the purpose set forth. 66,145.—POTATO DIGGER.—J. E. Giles and Charles S. Mc Robert Meads Mills Mich.

bb, 145.—POTATO DIGGER.—J. E. GHES and Charles S. MC Robert, Meads Mills, Mich. lst, Weclaim the digzer, H, and screen, J, constructed substantially as herein shown and described in combination with each other and with the frame, A, asand for the purpose set forth. 2d. The combination of the azle, C, lever, E, and chain, F, with each other and with the frame, A, substantially as herein shown and described for the purpose set forth. 3d. Operating the screen, J, from the drive wheel or wheels, D, by means of the bevel gear wheel, N, wheel, O, shaft, P, wheel, S, and arm, U, substan-tially as herein shown and described. 66, 146. — WOOD TURNING LATHES. — Andrew Goodyear, Springport, Mich.

Springport, Mich. 1st, I claim the combination in one machine for turning wag on hubs, of the sets of cutters one set of which may be brought in to action for roughing

18, 1 Caunt the combination in the machine of turning was on noises, or the sets of cutters one set of which may be brought into action for roughing out the hub, the mechanism thereot, being constructed and arranged to operate substantially as set forth.
24, The combination of the yoke from D, hinged to the main frame, A, roughening cylinder, C, arm, a, rod, 72, spring, s, said parts being respectively constructed and arranged substantially as described.
3d. So arranging the operating mechanism of the two sets of cutters that the roughening cutters shall revolve at a high speed at the same time that the roughening cutters shall act upon the hub when made to revolve at an increased speed, substantially in the manner set forth.
66,147.—BILLIARD CUE.—C. H. Gould, New York City. I claim in combination with a billard cue, I, the use or employment of a the purposes here in fully described.

I claim the weights, DD, and the levers, e.e. in combination with the sup-porters, C.C., arranged and operating substantially as and for the pur-poses herein described. 66,149.—APPARATUS FOR DRAWING AND WEIGHING LIQUIDS.

as set forth. o6,150.—BAG HINGE.—George Havell, Newark, N. J. 1st, Iclaim the metallic ornamental plate, B, having either an opening or stem in its end for connecting it to the bar. C, which bar is provided with a cylindrical head, d, or band, as described, so that when thus conected to the frame. A, A' they form a neat and substantial hinge, as specified. 24, The bar, C, and plate, B, constructed substantially as herein described and used for the parpeness specified. 66,151.—CANAL LOCK.—Gcorge Heath, Little Falls, N. Y. Lodein the medocabetratically as herein described for full near local heads

66,151.—CANAL LOCK.—-GCOTTE Heath, Little Falls, N. Y. Iolaim the mode substantially asherein described of filling canal locks. 66,152.—HEAD BLOCKS FOR SAW MILLS.—Joseph Hubbell, Zanesville, Ohio. Iolaim the slotted plates, d, d made fast on the setting bar, a, in combination with the friction rollers, i, on the end of the purbing bars, g, g, the pawl, m, with the rack, h, constructed, arranged and operating as and for the purposes herein described. 66,153.—APPARATUS FOR CARBURETING AIR.—J. H. Irwin, Chicago III

Chicago, III. 1st, I claim the combination of a carburreting device with a chandelier pracket or a portable lamp, when arranged and operating substantially as de-

bracket or a portable lamp, when arranged and operating substantially as de-scribed. 2d, I claim in combination with a chandelier bracket or portable lamp, two carburreting vessel to contain two different grades of hydro-carbon oll substantially as and for the purposes specified. 66,154.—HARVESTERS —Caleb Lee, (assignor to self and Joshua Lee, Sandy, Ohio. I claim the combination and arrangementof the rame, A, drag bar, I hav-ing the bearings, J.J. for the crank shaft, H, and provided with double joints, K, jointed brace, L, shoe, M, and crank lever, N, all constructed and operated in the manner and for the purpose set forth.

operated in the manner and for the purpose set forth. 66,155.—GANG PLOW.—John T. Legg, Lewis County, Mo. Iclaim the plows, A, A', beams, e, e', rods, F, F', and g, g', the compound lever, H H', lever handles, K, K', and ratchets, M M', arranged, com bined and operating for the purpose and in the manner substantially as described. 24, I claim the lever, n, n', and ratchet, m, m', arranged, combined and ope-rating for the purpose and in the manner substantially as described. 3d, I claim the stay chams, F, P', the bea 's, E, E', the tongue, Q, the strap, R, and the stiffening pole, S, arranged, combined and operating in the man-ner and for the purpose as heretofore described. 466 156. VAL UNCON STRATE, EVALUATE, W, H, Lowis, C'main

66,156.-VALVES OF STEAM ENGINES.-K. H. Loomis, Cincin-

nati, Ohio, assignor to Cornelius Van Brunt, Fishkill, N. Y. I elaim, first, the ease or seat, B, constructed as described and arranged within a conical opening in its frame and provided with a trapering plug valve, C said valve being provided with a transverse hub at its centre and with longitudinal slats on each side of said hub, the steam openings being uniform at their intersection, but made faring from this point outwards and inwards, as specified, the whole being arranged as and for the purposes set forth.

lawards, as specifics, the mark bong arrange as a set of the forth. 2d, The arrangement of the conical spiral cams, L and L upon the vertical governor shaft, in combination with the tapering plug valves, J, J, for reg-ulating the flow of steam, to and from the cylinders in the manner herein

herein fully described. 66.148.—TABLE.—H. C. Hardy, Muncie, Ind.

Scientific American.

66,162.-WASHING MACHINE.-M. McEnerny, Birmingham,

00,102.— WASHING INACHINE.— In INCIDICITY, Diminispansify Conn. I claim, first, the combination and arrangement of the vertically arranged plates or disks, E, F, fitting one within the other, one plate having a lateral adjustment, the other plate having a rotary motion, all substantially as here-inshown and described. A, I also claim the hopper, h, in combination with the disk or plate, E', for inserting the clothes in the machine substantially as described. 3d, The scap device constructed as described, consisting of the projecting pocket, f, in the disc, K, cap, f', and set screw, g, in combination with the disc, B', as herein set forth forth for the purpose specified. 4th, The treadle device constructed as described and arranged to operate with the disks, E, E', and lever, F, as herein set forth for the purpose specified. inshow 2d, 1 for inse

specified. Substantially as and for the purpose described. State, Taiso claim the combination of the lever, F, with the disk or plate, E' substantially as and for the purpose described. State, The combination of the removable tub, K, with the disks, F, E', and the tub, A, substantially as and for the purpose described. State, The combination of the removable tub, K, with the disks, F, E', and the tub, A, substantially as and for the purpose here in shown and described. State, The Combination of James J, Robinson). Clinton, 111. I claim the stock. A, with the notch, c adjustable arm, D, and graduated end, b, slide, B, provided with pln. a, and pointer, K, arm. G, and slotted plate, F, arranged to operate substantially ashere in set forth for the purpose specified.

blaté, F. arranged to operate subsfantially asherein set forth for the purpose specified.
66,164.—SHEEP RACK.—John D. Munson, Tyre, N. Y. I claim, 1st., The combination of the pivoted alat frames or racks, C and D with the frames, A and B, substantially as herein shown and described and for the purposes set forth.
2d, The combination of the division boards or frames, E and F, with the frames, A and B, of the rack, substantially as herein shown and described and for the purpose set forth.
3d, The combination of the hinged boards, G I and H J, with the frames, A and B, and with the division boards or frames, E and F, with the frames, and b, and with the division boards. G I and H J, with the frames, A and B, and with the division boards. W. Neal and W. H. Startzman. Big Lick, Va., assignors to themselves and Howard Munnikhysen.

uysen. • Claim the cam lever, A, cord, E, and weight, f, connected to the shaft, hen u ed in combination with the beam, B, and belt, C, all the parts be-

berein set forth. 65.167.—WASHING MACHINE.—James M. Noble, Delhi, Iowa. claim, 1st, the construction of the beater box, B, containing the false bot n, D, over which the gravitating beater, F, slides, substantially as described the purpose specified. a, The combination and arrangement of the beater box. B. false bottom

and, The combination and arrangement of the beater box, B, false bottom D, beater, F, and double water receptacle, E, as herein set forth for the pur 66.168. -TOILET GLASS.—Albert Ober (assignor to himself

66,168.—TOILET GLASS.—AIDERT ODER (assignor to minisen John T. Ober, and Samuel F. Ober), Beverly, Mass. I claim the two mirrors, H I, in combination with the series of folding frames, C D E F, and when net cessary the supporting frame, G, hinged to the series of folding frames and attached to a box, A, or any snitable base, all ar-ranged substantially as and tor the purpose set forth. 66,169.—ATTACHMENT FOR SPADING FORKS A D SHOVELS.— H. W. Parsons and L. L. Wooster, Whitney's Point, N. Y. We claim the loop. D, and the pin and collar, C, with the spade or fork, as and for the purpose specified. 66,170.—T. PACKARALER FOR BALLWAYS.—Hudleson Patter-

and for the purpose specified. 66,170.—TRACK-RAISER FOR RAILWAYS.—Hudleson Patter

son, Augusta, Mich. I claim the arringment of the pointed sliding shoc, F, upon the end of the screw, D, between the uprights, A A, having a curved base, C, and used for elev ting railroad tracks in the manner as specified. 66,171.—GATE.—J. B. Powell and S. H. Everett, Macedon,

N.Y. I claim the combination of the pivoting rod, C. having a crank formed upon tsupper part, and a pinon wheel, c', attached to its upper end, the toothed and pivoted plate, D, connecting rods, G, and operaing levers, H, with each other, with the gate. A. and posts, B and F, substantially as herein shown and described and for the purpose set forth. other, with

and described and for the purpose set forth. 66, 172. — MACHINE FOR MAKING BUTT HINGES. — Adrian Rais (assignor to Scovill Manufacturing Company), Waterbury, Conn. I claim the combination of the single bending die, the clamping gage, the cams, the rock shafts and their arms, the pitman, the feeding apparatus, and the pushing slides, or the equivalents of them or either of them, the said combination being organized substantially as described. 63, 173. — HANDLE ATTACHMENT FOR BLACKING BOXES. — Thomas S, Robinson, New York City.

665,173.—HANDLE ATTACHMENT FOR BLACKING BOXES.— Thomas S. Rohinson, New York City. Iclaim the handle, B, pivoted at C, to the bottom, a, or top, b, when con-structed, arranged, and operating asherein set forth. 66,174.—HAND SAW.—Edward H. Roe, Jersey City, N. J. I caim the application of a screw or its equivalent, to a back saw, substan-tually in the manner as and for the purpose set forth. 69,175.—SAD-IHON HANDLE.—Francis Joseph Schellmann, Syracuse, N. Y., assignor to himself and Theedore Thurher), Anburn, N. Y. 1st, Iclaim the shank. A, as constructed in combination with the spiring catch, a, to hold the handle D, on, and allow it to be easily removed for heat-ing, sub stantially as and for the purpose herein set forth. 24, I claim the turned handle, D, spring catch, a, shield, E, and shank, C, as herein described, in combination with a flat or sad iron, substantially as set forth.

66,176.—Machine for Unhairing Hides.—Judson Shultz

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as and for the purpose set forth. 66,178.--CHURN.-Henry Sidle, Minneapolis, Minn. I claim the arrangement of the box A, provided with ribs on its inner side, dasher B, with it arms CC, as constructed, supports D D, with wheei F, and vertical handle H, for operating cog G, on end of dasher shaft, in the manner and for the purposes specified. 66, 179.--STEP LADDER HORE TO South D. the purposes specified.).—STEP LADDER.—Henry T. Smith, Brooklyn, N. Y.

I claim the combination of the extension parts, G and J, and J, and Stille straps, H I K L, with the ordinary parts, A and B, of a step ladder, su stantially in the mannerherein shown and described and for the purpose set forth. 66,180.—SHEEP FEEDING RACK.—Joel J. Smith, Barnesville,

66,180.—SHEEP.FEEDING FRACK.—o OCI o. Dinival, Lawranger, Onio.
1st, I claim the pivoted bottom B B, in combination with a sheep rack, in manner substantially as and for the purposes described.
3d, The combination of the reck and adjustable troughs, in manner substantially as herein shown and described.
3d, The troughs C, adjustable by the bell cranks and lever arrangements in manner and operating substantially as above set forth and described.
4th, The pivoted shields H, in combination with troughs C, in manner and operating substantially as and for the purposes described.
66,181.—WASHING MACHINE.—L. Smith, Strongsville, Ohio.
1st, 1 claim the series of beaters B, as arranged in relation to the spring board G, rib H, and springs J, in combination with the inclined bottom, and operating conjointly, substantially as and for the purpose set forth, and operating with a diblock P, arranged in relation to the links D, and spring M, and crank, and applied as and for the purpose set forth.

Sepring M, and crank, and applied as and for the purpose set for the 182.—Wirke FENCE.—Lucien B. Smith, Kent, Ohio.

I claim the construction of a wire fence provided with rotary spot aving radial spurs, d d, and supported by cast iron posts A, arranged is r the urrose herein described.

2d, The swing braces, D1, hinged to and in combination with the main frame, is described, and operating as and for the purpose set forth. 36,188.—SEED AND GRAIN SIEVE.—H. S. Townsend, Green-

as described, and operating as and for the purpose set forth. 66,188.—SEED AND GRAIN SIEVE.—H. S. Townsend, Green-vale, Ill. I claim, 1st, Extending the screen, D, of a grain or seed separator or thresh-ing machine, beyond the ordinary grain shoe, and supporting its outer end by an additional shoe, E, substantially as and for the purpose hereinshown and described.

describe 2d, The The application of the wire braces, c c, below the netting of a wire a, D, for the purposes set forth, and substantially as herein shown and bed.

66,189.—WATER WHEEL.—Ebenezer Tuttle, Canaan, Maine.

00,103.— WATER WHEEL.—EDGNGZGT TULLIC, CANAGA, MallAC. I claim the regulator, C, and disk. D, arranged in relation to the gate, G, and wheel, A, substantially as and for the purpose set forth and described. 66,190.—FEED BAG.—John Vandercar (assignor to T. S. Sper-ry), Brooklyn, N. Y. Antedated June 20, 1867. I claim the internal bag, E, extending downward and inward from the top of the structure, and provided with the spring, e, arranged to operate rela-tively to the internal 'mar, E, and to the perforated exterior casing, B, sub-stantially as and for the purpose herein set forth. 66, 191.—Stankar LAMP. Locoph Well, New York City.

of the structure, and provided with the spring, e, arranged to operate rela-tively to the internal. The R. and to the perforated exterior casing, B, sub-stantially as and for the purpose herein set forth. 66,191.—SIGNAL LAMP.—Joseph Wall, New York City. I claim the box, A, having cases, B, fitted in it, provided with different col-ored glasses, a b c, and an operator of dark section, d, and inclosing lamps of lights, the cases being placed before openings in the box, and all arranged substantially as and for the purpose specified. I rurther claim the placing of the box, A, on a revolving stand, constructed and arranged substantially as and for the purpose specified. G6,192.—MACHINE FOR FEEDING NALL PLATES.—W. Wallick, (assignor to himself, S. F. Prince, and H. K. Smith), trailatelptin, Pa. I claim, 1st., The inpers, L. constructed substantially as described in com-bination with the devices herein set forth, or the equivalent to the same whereby the reversing and recipropating and vertical vibrating motion are imparted to the said inpers, as and for the purpose herein set forth. 23, The receased belate, F, by which the nippers are carried, and with the de-vices herein described, or their equivalents, by which the said bed plate and its nippers are advanced at uniform intervals for the purpose described. 34. The receased brackets, S. S. or their equivalents, for operating the frame and causing the latter to move the lowest of the strips within the range of the nippers, asset forth. 41. The nippers, constructed substantially as described and connected to the spindle, J, in combination with the sublate, P, may copen the jaws of the purpose specified. 45. The respected by the moving bed plate, P, may copen the jaws of the nippers and permit the same to be self closed, in the manner and for the purpose specified. 51. The segmental pulley, I, carried by the moving bed, F, and arranged to operate the spindle, J, in cound the weld plate, P, and its pointed pro-jection. 56,193.—FLEXIBLE COUPLING.—N. W. Wheeler, Bro

66,193.-FLEXIBLE COUPLING.-N. W.Wheeler, Brooklyn, N. Y.

b) 193.-F LEXTELE COOPLING.-N. W. Whether, DrOoklyn, N. I. Iclaim, ist, The combination of the coupling heads, B b, chock pieces, ff f f, and clamp rin g, D D, substantially as and for the purposes described. 2d, In combination with the above dividing and constructing the chock pieces, ff f and 12 I2 I2 Registratially as and for the purpose described. (63,194.-SURFACE CONTENSER, N. W. Whether, N. Y. I claim the combination of the above described discharge nozzle with a surface condensar.

surface condenser. 66,195.—WASHING MACHINE.—H. W. White, Olney, Ill.

I claim. 1st, The roller washing machine, B C D E, provided with attaching devices to secure it within a common wash tub, substar.tially as described.

scribed. 2d, In connection with the above I further claim the pressure device, F G HJ, in combination with the rolls, D, and frame, B B', as and for the pur-pose specified. 66,196.—PLANTING HOE.—Augustus Williams, Sebec, Me.

I claim a planting hoe composed of the parts herein shown and described when combined and arranged to operate substantially as and for the purposes

set forth. 66,197.-Support for Elevated Railways.-F. A. Wil-

itams. Clovesville, N.Y. I claim the construction of the posts. A, consisting of a combination of the bed plate, D, central post, C, side supports, E, and braces, F, with the sleeper, B, all made substantially as and for the purpose he rein shown and described, 66,198—Door STOP AND LATCH.—C. L. Willis, Washington,

D. C. I claim the yielding stop as constructed in combination with a spring catch or hook, operating in the manner substantially as herein described for the purpose set forth. D.—PILL MACHINE.—W. V. V. Wilson, Savannah, Geo.

66,199.—PILI, MACHINE.—W. V. V. Wilson, Savannah, Geo. Antedated June 21, 1867.
I claim the adjustable rail: C, in combination with the board, A, and rubber. B, substantially as and for the purpose described.
66,200.—SULEX PLOW.—Israel Wing, Earlville, Iowa.
I claim, ist, The combination of the inclined tongues, C, with each other, with the double tree, D, and axte, B, substantially in the manner herein shown and described and for the purpose set forth.
Second, The combination of the plow standards, G and H, bars, I, and chains, K, with each other and for the purpose set forth.
66,201.—PAVEMENT.—C. W. Stafford, Saybrook, Conn. Antedated March 27, 1867.
I claim, ist, The constructing of sections of pavement composed of metallic bandsgrooved blocks of wood and keys, substantially as and for the purpose set forth.

 NUT MACHINE.—James Rees and Rob Crichton Exrs. H. Carter, Pittsburgh, Pa. Letters Patent No, 10,249. Dated Nov. 22d, 1853 Antectated June 3, 1853.
 I claim the arrangement of the devices substantially as herein described forreducing theepd of the blank bar to a given thickness proparatory to severing the blank, whereby nuts of uniform thickness produced irom bars of irregular thickness, and the machine is protected against injurious strains.
 PAPER FILE.—H. L. Smith, Gambier Ohio, formerly of Cleve-land, assign ors to H. L. Smith, Ceveland, Ohio, O. and L. Buttles and H. A. Switt, Revena, Ohio. Letters Patent No. 9,776. Dated June 7 1838.
 I claim the paper file acerin described with prepared adhesion leaves or margins as a new article of manufacure. No. 9781. Dated June 14, 1853. I claim my improved mop head, composed of the fixed cross head, B, which has grooves in its lower side and in combination with the sliding binder, C, thatterminates in a notched shank, c, and passes through the ioop, a, on the handle, A, which serves as a detent in consequence of the action of the spring, d, on the underside of the said shank, substantially as herein set forth.

Tetalli, 1s, r he constructing of sections of solve the composed of metallic bandsgroved blocks of wood and keys, substantially as and for the pur-pose sectorth and described. Second, A pavement made up of sections of wooden blocks, substantially as described for the purpose specified. 66,202. — COTTON (4rx, — Henry Scattergood, Albany N. Y. ist, I claim a ginning cylinder former, with circular ribs or projections containing or supporting the testh, said ribs or projections being elevated above the other portion of the surface of the ginning cylinder and thus leav-ing grooves for the reception of the guards, substantially as specified. 3d, I claim forming the ginning cylinder of a series of rings, between which, rings or segment of rings containing teeth are secured, substantially aspecified. 3d, In combination with a cylinder carrying circular ranges of needle pointed teeth, I claim the guards, & formed with openings to their upper ends, as and for the purposes specified. 4th, I claim attaching the delivering or doffing roller upon arms extending from the axis of the perforated condensing roller or cylinder so that said delivery roller is allowed to raise and accommodate the thickness of the bat and is kept properly in contact with the condensing cylinder as formed with 5th In combination with the condensing roller or rollers formed with

Saws.-G. N. Reed and P. L. Tuttle, Geneva, N. Y. Ad-ministrators of J. H. Tuttle. Letters Patent No 9,807. Dated Jane 21,1853. I claim the combination, arrangement and location upon the same blade. of the sets of fleam teeth for scoring the sides of the kerf and the sets of planing teeth for removing the wood between the scores when said plan-ing teeth are placed back to back curved in opposite directions, and are between the setts of fleam cutters, and at sufficient distance apart, so that each planing tooth shall serve alternately as a gage to its fellow, while al-lowing it to cut to a proper depth and be a 'permanent guide to the fleam cutters to prevent any ot the teeth from taking two rank a hold upon the wood, which makes it run with great ease and efficiency, and is applicable to slitting or cross cutting, substantially as described.

forth. 5th, In combination with the condensing roller or rollers formed with smooth perforated surfaces. Iclaim the screen, V, and brush blower, B, for conveying the cotton to the condenser as specified.

REISSUES. 2 657.—Spirit Meter.—Joshua G. Allen, Philadelphia, Pa.

2 657.—SPIRIT METER.—JOSHUA G. AHEH, I MERCEPAR, I an Patented April 2, 1867. Ist, I claim a meter provided with a series of sample tubes or chambers, arranged to receive and retain samples of the liquid measured, substantially as and for the purpose set forth. 2d, I claim combining with a still two separate meters, soarranged that the high grade shall how through one and the low grade through the other, in-dependently d each other, as set forth. 3d, I claim constructing the meter, or such portions of it as may be neces-sary, of glass or other non-oxy dizable material, to protect it from in jury by solids

1.192.—MEANS FOR CHECKING AND GUDING HORSES.—Wm. Clark, Valatie, and Wm. Griffin, Lansingburgh, N. Y. A pril 24, 1867. 1.265.—BOOTS AND HOES.—Geo. F. Chase, Boet n, Mass. May 1, 1867. 1.269.—LOOM.—Erastus B. B gelow, Boston, Mass. May 1, 1867. 1.269.—LOOM.—Crastus B. B gelow, Boston, Mass. May 1, 1867. 1.269.—LOCOMOTIVE AND TRACTION ENGINE, ALSO RAISING HEAVY BODIES. —Theodore Kransch, philadelphia, Pa. May 2, 1867. 1.239.—ERERCH-LOADING REVOLVING FIRE-ARM.—Reuben Drew, Lowell, Mass. May 3, 1867. 1.301.—PORTABLE LAMP AND ILLUMINATOR.—Thomas Crossley, Bridgeport, Conn. May 3, 1867. 1.302.—FIRE ALARK.—Thomas Crossley, Bridgeport, Conn. May 3, 1867. 1.302.—FIRE ALARK.—Thomas Crossley, Bridgeport, Conn. May 3, 1867.

acids. 4th, I claim the use of a graduated tube with a hydrometer placed therein. for the purpose of indicating the hight of the liquid, its quality or grade, and temperature, substantially as desorbed. 2,658.—MOP WRINGER.—W. Gillett and W. S. Gillett, Stowe, Vt. Patented Nov. 13, 1866. 1st, We claim as a new article of manufacture a mop wringer composed of two plates hinged together substantially as described, for operation as set forth. acids. 4th, for th

two plates hinged together substantially as described, for operation as set forth.
2d, In a mop wringer composed of two plates we elaim making one of them stationary and connecting the other with it by a hinge joint or its equivalent, substantially as set forth.
3d, The combination with the stationary and movable plates, of side boards, or a frame to which the stationary plate is permanently secured, substantially as described.
4th, In combination with a mop wringer constructed for operation substantially as described, we claim the braces, or their mechanical equivalents, whereby the said wringer is or may be secured to a two or other vessel.
5th, The comb nation with a mop wringer such as described of a foot board for steadying the tub while the wringer is being operated, substantially as specified.
6th, In a mop wringer such as described we claim forming apertures in the plates with a hangle to move it to and from the stationary plate, as and for the purposes setforth.
6th. Or a mop wringer such as described we claim providing one of the plates with a hangle to move it to and from the stationary plate, as and for the purposes setforth.

1.378.-Mode of LUBRICATING THE STUPFING BOXES OF STEAM ENGINES AND PUMPS, AND OF RENDERING THE PACKING WATERPROOF AND DURABLE. -Abraham Littlewood, Francis W. Bloodgood, and Henry D. Ostermoor, New York City. May 9, 1887. 1,390.-GOVERNOR FOR STEAM AND OTHER ENGINES.-Daniel F. Mossman,

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apparatus which has reciprocating cutters and is first by connected to the rear end of said crat bars so that either end of said cutting apparatus may rise or fall with the unfulations of the ground over which it is drawn, substantially as described.
 4th, The combination in a harvesting machine which has two driving and supporting wheels and a cutting apparatus which has reciprocating cutters, of a single drag bar vibrating vertically upon a joint at its front end an dilexibility of a single drag bar vibrating vertically upon a joint at its front end an dilexibility of a single drag bar vibrating vertically upon a joint at its front end an dilexibility on etced at its rear end with said cutting apparatus, and a vertically slotted retaining link or plate to prevent any lateral movement of rear end of said drag bar and to limit its vibrations downward so as to support the weight of the cutting apparatus whenfolded upon the machine for transportation, substantially as set forth.
 2661.—HARVESTER.—Wm, N. Whitely, Jerome Fassler, and O.S. Kelly, Sgringfield, Ohio, assignees by mesne assignments of John Log. Platine Dec 29, 1859. Division B.
 3. The combination of the adjustable caster wheel, H', attached to the inside of said caster wheel, bustantially for the purpose set forti.
 3. The combination of the adjustable caster wheel, H, attached to the inside of said caster wheel, a drag bar fixibly connected at its front end with the main frame, substantially as described.
 3. The combination of the adjustable caster wheel, he cutting apparatus independent of the main frame, substantially as described.
 3. The combination of the adjustable caster wheel, a trans independent of the main frame, substantially as described.
 3. The combination of the adjustable caster wheel, substantially as described.
 3. The combination of the adjustable caster wheel is dimetry as the substantial was be adderibed of a said shoe in

2,662.—PROCESS OF PREPARING HIDES AND OTHER ANIMAL

OTHER SUBSTANCES.-Wm. Perry, North Bridgewater, Mass. Patented Feb. 26, 1867. Claim, 1st, A steam digester for treating bones, fish, bark, etc., which is de and operated substantially as herein shown and described.

made and operated substanially as herein shown and described. 3d, The combination of the suspended retort or digester. A. and the hinged steam caps, d d', on the charging and discharging openings, substantially ar-ranged and employed as and for the purposes herein described. 3d, Also the stopper, m. and the dispiragem, n, in combination with the discharging cap, d', and the ejection pipe, p, arranged and operating substan-tially as and for the purposes specified. 4th. Also the steam-t ght couplings, c and c', on the pipes, b and p, respect-ively, in combination with the suspended retort, A, for disconnection there-with, as and for the purposes herein described. DESIGNS

DESIGNS. 2,682 and 2,683.-PLATES OF A STOVE.-S. Colly and R.

Score, Troy, N.Y. Two cases, 2,684.—VISITING CARD.—Samuel W. Francis, Newport, R. I. 2,685.—FOLDING CHAIR.—B. J. Harrison and J. Condie, New York City

2,685.—FOLDING CHAIR.—B. J. Harrison and J. Conule, New York City.
2,686.—PLATES OF A STOVE.—David Hathaway (assignor to to Fuller, Warren & Co.), Troy N.Y.
2,687.—COOK STOVE.—J. Martino J. Beesley and J. Currie, Philadelphia, Pa., assignors to Marsbhank and Martin), Lancaster, Pa.
2,688.—ENVELOPE.—Elisha Morgan, Springfield, Mass.
2,689.—PLATES OF A STOVE.—G. Smith and H. Brown (assignors to Abbott and Noble), Philadelphia, Pa. Antedated May 28, 1867.

EXTENSIONS. SRIRT LAMP.—A. J. Walker, New York City. Letters

SRIRIT LAMP.—A. J. Walker, New YOrk City. Letters Patent No. 9,751, dated May 24, 1853. I claim the employment of the plate, B, which serves as a protection against the fluid rising too high and becoming heated and exploding, and also as a support for the inner tubes, in combination with the spiral spring, E, and role F, the role serving to connect the said plate with the top of the lamp and the spring serving to hold the plate, B, firmly down on the flange, D, and also to throw up the cap and extinguishing tubes instantaneously after the top has been unscrewed, the whole heing constructed, arranged and operat-ing in the manner here in shown and described. NUT MACHINE.—James Rees and Rob Crichton EXTS. H. Cortic Bittshurch Be, Laters Betring Yao Mort May 201 1872

MOP HEAD.-Harvey Murch, Lebanon, N. H. Letters Patent

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

PROVISIONAL PROTECTION FOR SIX MONTHS.

having radialspurs, d d, and supported by case i.e., for the surpose herein described. for the surpose herein described. 66,183.—FRUIT AND POULTRY BOX.—Daniel B. Spinning, Brook lyn, N.Y. 1st, I claim the manner of connecting the cover to the back C', of the box by means of staples e e, and slotted platesg g, substantially as herein shown by described.

2d, A foling box, when made of the pieces A B B C C' D and E, all being hingei, connected, and fastened substantially in the manner herein shown

hinged, connected, and rastened substantially in the manner herein snown and described.
66,184.—MACHINE FOR TRIMMING HEELS OF BOOTS AND SHORE.-Caleb S. Stears (assignor to himself and W. E. C. Worcester), Mariboro, Mass.
I claim the revolving table F, with its swinging frames T, operated by mechanism substantially as described for traversing the heels to and from the knife, and for holding them in position while being trimmed, substantially as set forth.
I also claim the shatts E, with their gears D, revolved by the toothed portions b V of the annular ring C, in combination with the pins s', and their plates U V, or ther su stable mechanism for producing the required revolution of the heels, substantially in the manner set forth.
I also claim the incline 10, for raising the pates U, which support the heels for the purpose of holding them firmly in position between said plates U, and yielding pressure plates V, substantially as set forth.

66 185 -MARKING ATTACHMENT FOR SEWING MACHINES

R. H. St. John, Belfontaine, Ohio, assignor to J. W. Russell and D. S. Covert, New York City. I claim the spindle E, having dog or foot piece K, marker H, spring M, rew J, holder B, and presser foot A, when constructed and arranged as rein settifyifor the purpose specified.

16:186.—Horse Fakk.—Jas. F. Swinnerton, Marion, Ohio. laim the combination of theplate or socket L, hookM, and ringN, with each other, and with the tongue K, and frame F G, substantially as hereir shown and described and for the purpose set forth.

66,187.-EXTENSION SCAFFOLD.-C. M. Tanner, Mentor, Ohio. 1st, I claim the windlass A, guy ropes A' and A2, in combination with the platform H, operating substantially as and for the purpose specified.

the purposes set forth. 2,659.—MINCING KNIFE.—Helen M. Remington, Springfield.

Mass. Patented Feb. 12, 1867. I claim a hand mincing knife having a shank constructed solid or in sec-tions, and terminating in the realial curved arms, b b, in combination with the bhales, c c, so applied to the said arms, b b, as to leave and open centra I space, the whole constructed and arranged substantially as described and for the purpose herein set forth.

space, the whole constructed and arranged substantially as described and for the purpose herein set forth.
2,660.—HARVESTER.—Wm. N. Whitely, Jerome Fassler, and O.S. Kelly, Springfield, Ohio, assignees by nesse assignments of John Long. Patented Bec. 29, 1857.
1st, We claim the combination in a macbine having two independent driving wheels or a single drag bar flexibly connected at its front end with the main framet, rward of the axis of the supporting wheels, its rear end free to rise or fall independent of said main frame, and connected with the main framet, rward of the axis of the supporting wheels, its rear end free to rise or fall independent of said main frame, and connected with the main shoe by two joints, one forward of and the other in rear of the sickle, for the purpose of affor ding the cutting apparatus firm support and permitting either end of the same to rise or fall with the undulations of the ground over which its drawn, substantially as described.
2d, Connecting the rain shoe of a cutting apparatus which has reciprocating cutters with a single drag bar factibly connected with the main frame at its front end, and us rear end free to rise and fall with the undulations of the ground, independent of the main frame, by means of projecting joints, one forward of and one in rear of the sixtle, so as to leave a clear space between said joints and beneath said drag bar, through which the cutters' connecting rod may be reciprocated, substantial's as described.
3d, The combination of the tollowing instrumentalities in a harvesting machine, viz. two independent driving and supporting wheels, a main frame which carries the gearing, a tongue which may be made rigid or flexible, a single drag bar fiexibly concet at a space between shift and the combination of the tollowing instrumentalities in a harvesting machine, viz. two independent driving and supporting wheels, a main frame shift ever the combination of the collowing instrumentalities in a harvesting machine

Cambridge, Mass. May 10, 1867. 1,448.—METEOD OF MANUFACTURING ILLUMINATING GASES.—Wm. Elmer, New York City. May 16, 1867. 1,449.—BRENCH-LOADING FIRE-ARM.—Wm. W. Hubbell, Philadelphia, Pa.

1,346.—MACHINE FOR SCOURING OR CLEANING GRAIN.—Peter T. Elting, Buf-falo, N. Y. May 7, 1867. 1,358.—COTTON BALE TIE.—Geo. N. Beard, St. Louis, Mo. May 8, 1867.

1,493.—DEFRONT FORMER May 16, 1867. 1,218.—LEVEL.—Charles Wells, Bridgeport, Conn. April 27, 1867.

1,326.-LOCK.-James Brady, Norwich, Conn. May 6, 1967.

1,374.-EGG BEATER, ALSO APPLICABLE FOR MIXING LIQUORS AND LIKE PURPOSES.-Howard Tilden, Boston, Mass. May 9, 1867.

1.375.-COFFEE POT.-Howard Tilden, Boston, Mass. May 9, 1867.

1,375.—COFFEF FOT.—HOWARD THIGED, BOSCON, MASS. MAY, 1867. 1,377.—WELDING OF IRON AND STEEL.—John P. Price and Frank K. Hipple, Phiadelphia, Pa. May 9, 1867. 1,399.—BRICK-MAKING MACHINE.—John S. Meredith and John H. Mitchell, Baltimore, Md. May 10, 1867. 1,406.—CASTER FOR TABLES, ETC.—Ed. W. Wilder and Simon G. Cheever Boston, Mass. May 11, 1867. 1,407.—CONSTRUCTING METAL COCKS, FAUCETS, ETC.—Wm. W cstlake, New York City May 11 1867.

BOSTON. MASS. MAY 11, 1867. 1407. -CONSTRUCTING METAL COCKS, FAUCETS, ETC.-Wm. W cstlake, New York City. May 11, 1867. 14:99. - ATLE BOXES AND BEARINGS.-Patrick S. Devlan, Jersey City, N. J. 14:99. - ATLE BOXES AND BEARINGS.-Patrick S. Devlan, Jersey City, N. J. 14:61. - MANUFACTURE OF WHITE LEAD.-Thomas M. Fell and Ambrose G. Fell, New York City. May 17, 1867. 1,665. - MINING TUNNELING. AND STONE DRESSING MACHINE, AND VALVE MOTION THEREPOR.-Richard C. M. LOVEL, COVINGION, KY. May 27, 1867. 1,463. - WATER GACE.- Ambrose G. Fell, New York City. May 17, 1867. 1,463. - WATER GACE.- Ambrose G. Fell, New York City. May 17, 1867. 1,463. - WATER GACE.- Ambrose G. Fell, New York City. May 17, 1867. 1,465. - MODE OF FRODUCING CHLORIDE OR OXYCELORIDE OF LEAD, AND TREATING THE SAMEFOR MANUFACTURING WHITE LEAD.-Thos M. Fell and Ambrose G. Fell, New York City. May 17, 1867. 1 469. - APPARATUS FOR LOWERENG. DETACHING, AND PICKING UP SHIPS' BOATS.- Robert Creuzbaur, New York City. May 17, 1867. 1,514.- CENTRAL FIRE METALLIC CARTRIDGE.- DEXET Smith and Joseph M. Hall, Springfield, Mass. May 21, 1867. 1,524.- FABRICFOR THE MANUFACTURE OF MACHINE BELTING, ETC.-ZENAS M. Crane and James B. Crane, Dalton, Mass. May 2, 1867. 1,593.- ILLUMINATING THE SHADOWS AND HARMONIZING THE LIGUES AMP

1,593.—ILLUMINATING THE SHADOWSAND HARMNIZING THE LIGHTS AND SHADES IN PHOTOGRAPHIC IMPRESSIONS.—Franklin B. Gage, St. Johnsbury, Vt. May 29, 1887.