342



[Reported Officially for the Scientific American.] LIST OF PATENT CLAIMS

Issued from the United States Patent Office

FOR THE WEEK ENDING JUNE 27, 1854.

FURNACE OF STEAM BOILERS-Jonathan Amory and W. P. Parrott, of Boston, Mass.: We claim conducting off the carbonic acid gas, or other heavy and incombusti-ble gases, which check combustion, by means of a pipe which communicates with the bottom of the furnaceat or near one end of the same, and with the smoke pipe or flue, as described.

The, as described. CIDER MILLS-Jesse Bauman, of Shepherdstown, Pa.: I claim the use of the wheel provided with offsets or planes, and teeth or spikes, in combination with the springs for grinding the fruit. Secondly, I claim the arrangement of the grinding wheel and springs, with the cam, pressing bax, and pomace drawer, and spring, O, for the purpose of press-ing the pulp and delivering the pomace, as set forth. Lastly, I claim in the secondary mill the arrangement of the spring, concave, and cam shaped rasping wheel, or grinder, for the purpose of reducing the fruit to a pulp. pulp.

COFFER MILLS-Chas. H. Beatty, of Wheeling, Va. : I claim adjusting the movable grinder of coffee or spice mills by a handle or lever composed of two parallel pieces and a tempering scrtw, as set forth.

GRAPS FRAME-J. O. Cross, of Kingsbury, N. Y.: I claim an adjustable elevating and depressing grape frame, with or without supporters attached, for the bet-tercultivation of the grape, which is believed will se-cure all the advantages specified.

Gas any Liquin Report.arg. T. H. Dodge. of Nashua. N. H. : I claim the employment for regulating the flow of gases and fluids of two chambers having communica-tions at top and bottom, and being party filled with water or other liquid, and furnished with a valve and float, arranged and operating as described.

GRASS HARVESTERS-GeorgeEsterly, of Heart Prairie, Wis. I claim, first, the construction of the sickle in such manner as to have prejections on alternate sec-tions of the sickle sliding upon a bar, operating for the

becond, I claim grinding off the raised or feather edge made by the chisel in cutting the sickle, as set

Third, I claim the attachment of a plow to the sickle beam. by ascrew pivot to fit said plow to the surface of the soil, as set forth.

REVERSIBLE CAPSTANS-J. A. H. Ellis and Alex. Gor on, o. Rochester, N. Y.: We claim the shifting sput wheel connected to the shaft of the castan but sufficient space and operated by a lever or is equivalent, for the pur-pose of reversing the direction of the barrel of the cas-stan, without reversing the direction of the same of the same giving said capstan an increased backward motion.

BRERCH-LOADING FIRE-ARMS-J. Durell Green, of Cam ridge, Mass. Patented in England, May 12th, 1854: 1 aim the self-adjusting thimble, constructed and oper

claim the self-adjusting transfer self-adjusting transfer self-ating as described. I also claim the peculiar manner of locking the bar-rel to the breech by means of the wedge-formed ears and the hooks. in combination with the method des-cribed of controlling the forward and revolving motion of the barrel by means of the cylinder, the sleeve, and the spindle, the whole being connected together by the key, as set forth.

BANK LOCKS-WM. Hall, of Boston, Mass.: I claim the slotted slides, which are allowed to arrange themselves upon the stepe of the former, to form the bits of the key in combination with the pin, or its equivalent, when the tumblers are operated by turning the key, whereby the tumblers are rendered inaccessible to any instru-ment that may be inserted at the open key hole, and the latter is closed whenever the key is turned so as to bring the slides to bear upon the tumblers.

SEED PLANTER—Daniel Hill, of Bartonia, Ind.: I claim he r-versible directing board plane on one side, and urnished with converging slats or ridges on the reverse ide, for the purposes of either drill or broad-cast sow-ng

SUSPENDER ENDS-Julius Hotchkiss, of Waterbury, Ct. I claim the double attachment or connection of the straps with the buckie, as set forth.

Sawing MACHINES. Walter Hunt, of New York City: I claim, first.sustaining both ends of the needle whilst moving the cloth to effect the feed by means of an in-clined guide made adjustable and placed under or upon the shuttle side of the cloth, as described. Second. I claim the rotary table top, in combination with the guides and ways underneath the same, all ar-ranged and operating as set forth.

ROTARY CULTIVATOR-H. M. Johnson, of Carlisle, Pa.: I claim a system of snarpened disks or rotary colters. a part of which are armed upon their periphery with knives projecting laterally—said knives being set ob-liquely to theradus of the disk as described; the whole being combined and arranged in three several sets, so that the two sets armed with knives shall cut alternate sections of the soil as set forth.

DRING CLOTH-D. W. Kennedy, of Staunton, Va.: I claim the reel constructed as described in combination with the hot air or s: eam drum arranged upon its shaft, whereby the cloth near the shaft may be dried equally with that upon the outer diameter of the reel, and thus equalise the shrinking of the cloth throughout its whole length.

MITER MACHINE.—George W. La Bau, of Jersey City, N. J.: 1 claim the combination and arrangement in the manner described, of the several specific parts or their equivalents, of the miter machine, without limiting my-self to any particular arrangement of parts.

HYDRO-PNEUMATIC FORCE PUMP-Alexander B. Latta, of Uncinnati. Ohio: 1 claim, first. discharging the air from the cylinder before the end of the syroke of the piston to move beyond the end of the cylinder, and into the enlarged chamber, as described. Second-Inclusing the top of the water chambers up-

are burned of pure tin or other metals of which tin forms a large proportion, thickly coated with tin, for the pur-

a large proportion, thickly coaled with this for the pur-pose set forth. Second, making the tabe and inner portion of burners of tin or any metal thickly coaled with this, to prevent corrosion, and to avoid the use of solder. Third, punching the holes through the tips or jets of the gas burners, instead of drilling or sawing, which can be done by a hand punch, but with more accuracy and despatch by a small machine.

DOUBLE ACTING FORCE PUMP-J. H. McGowan, Jr., of Cinginnati, O. : I claim the combination of an air chamunsumati, U.: I claim the combination of an air cham-ber communicating with the pump above all the valves, with a vacuum chamber communicating with the pump below all the valves, whereby the elevation of water is rendered more equable, and effected with a saving of power.

FRUIT PICKER-John Mellendy of Southbridge, Mass. — I am aware that a fruit picker has been made of a common fork with two been times arranged on top of a pole, and a basket suspended underneath the times. I am alsoaware that a fruit picker has been made of acyl am alsoaware to n the top of a pole, and having pole, and a basket suspended underneath the times. I am also aware that a fruit picker has been made of acyl indrical vessel placed on the top of a pole, and having its upper edge armed with angular teeth raised on it: I therefore do not claim any such contrivances: nor the combination of a bifurcated pole and a basket hung to it, as they do not offer the facilities for gathering ruit that are found in my apparatus, as the movement of the basket of it, up to the star-shaped separator, en-ables a person to seize the fruit, and remove it without bruising it against limbs or by its dropping to far or upon other fruit. Besides this, the instrument when among the branches of trees may be moved from one fruit to another, without the necessity of turning around, the fruit being gathered by it with less labor and care than by the other instruments to which al-lusion has been made. But I claim the application of the star or serrated cover or separator, and the sliding basket on the pole, os as to extend entirely around it on the pole, and so that the serrated cover shall be stationary relatively to the pole, and the basket be made to slide or move to-wards and away from the cover. and be operated as specified. The whole construction and arrangement of the parts rendering the instrument far more convenient and effective, in use, and less liable to bruise or injure the fruit gathered by it, than any of the others to which reference has been made. INHALING TUBE-Daniel Minthorn, of New York City:

INFALING TUBE-Daniel Minitorn, of New York City: I do not claim inhaling tubes as new. I claim the bottle or flask with an air-tight stopper, and a tube with its lower and submerged into said fluid. And lastly, I claim the inhaling tube in combination with the flask and tube.

CUTTING BRADS-Wm. J. Miller, of Cold Spring, N. Y.

UTTING BRADE-WM. J. Miller, of Cold Spring, N. Y.: I claim the arrangement of the vibrating shear in re-lation to the revolving shears or cutters, as connected, so as to change the position of the cutting edge of the vibrating cutter, and cause it always to stand parallel with the edge of each revolving cutter until the nail has been cut off, as set forth.

ROAD SCRAPER AND SPREADER—Thos. Penrose, of El-lington. Ill.: I claim the tail piece with its adjustable brace, when combined with a flat scraper having the points of attachment of its draught chains at its lower edge, as set forth.

CHARGER FOR FIRE ARMS-T.H. Peavey, of South Mont-ville, Me., 1 claim the charger, consisting of the cham-bered cylinder confined between two plates, to one of which is attached a muzzle piece, or some suitable means of fitting it to the barrel, and furnished with a spring catch, or its equivalent, by which the chambers may be severally held in communication with the holes in the plates, and the muzzle piece, as set forth.

TRAP FOR ANNALS—Oliver Pier, of Harmony, N.Y. I claim the lever treddle, set, or fall, and the elbow catch latch, in combination with the single and double prong grapple, together with the folded spring, as de scribed.

wOORN BUTTONS-L. L. & A. L. Platt, of Newton, Ct. We claimmanifacturing wooden buttons by cutting the blanks from slabs, which are of a greater thickness than the buttons are intended to be, and reducing said blanks by pressure to the desired thickness for the pur-pose of forming durable and well proportioned buttons, as set forth. WOODEN BUTTONS-L. L. & A. L. Platt, of Newton, Ct.

MORTISING MACHINE-Hiraml& Simeon, H. Plumb, of Honesdale, Pa.: We claim cutting mortises by having two obisels forced gradually into the wood or stuff, and a reciprocating chisel or plane working between. The chisels cutting the ends of the mortise, and the chisel or planer cutting out the wood between them, the above parts being arranged and operated as shown, or in any equivalent manner.

WINNOWERS OF GRAIN-B. D. Sanders, of Holliday's Cove, Va.: 1 do not claim the valves or slides for regu-lating or modifying the blast in the several compart-ments of the blast spout, for they have been previously used, neither do I claim the spring traps, as they are well known.

Well known. I claim the combination of the inclined screen (next adjoining the feeding hopper) with the suction spout, subdivided into two or more compartments, the lower ends of the partitions extending downwards nearly to the screen, as set forth.

CARRIAGE AXLB-WM. H. Saunders, of Hastings, N. Y.: I do not claim simply enlarging an axie at the root, as this has been done heretofore; but I claim the combination of a taper axle, having an enlarge-ment at the root, with a box having a similar m-side enlargement at its rear, and a diminution of size outside, provided with concentric rings or grooves for allowing it to be wedged in the hub, the whole being for the purpose of strengthening the axle without enlarg ing the box and enabling me to use smaller hubs with a sufficiency of wood therein to preserve the necessary strength, as set forth.

CALIPERS-Perley Seaver, of Oxford. Mass.: I do not claim the precise form nor the operating by a screw or spring, or their combination. But I claim making the pieces with the projections, when combined with the cam and its nut, and operating substantially as described.

GRINDING MILLS-Isaac Straub, of Cincinnati, Ohio: I claim the combination of the permanently adjusted tram blocks, for supporting the upper stone, and the bridge tree, which is adjustable at both its ends, for supporting and adjusting the spindle and the lower stone or runner upon it, to the upper stone, as de-scribed.

scribed. STEAM HAMMERS—Thos Sumner, of Paterson, N. J.: Merely warying the direction of the blow, and employ-ing for that purpose a hinged or rocking guideframe for the hammer to descend in, with lever to direct the de-scribed of the hinged guideframe, which carries the hammer in relation to the anvil by supporting the said guideframeon a trunion below situated at the back of or on one side of the anvil and at the same level, or thereabouts, as that occupied by the bar, or works under operation on the anvil; the said hinged guide frame being furnished with a counter-balance weight, to fa-

Scientific American.

a movable and adaptable head frame, round or other-wise, consisting of the following parts, viz.: the head frame, the bar, the uprights, the head cushion, the straps, and the hooks, as represented. Second, the method by which the cover is secured to the coffin, viz.: the eyes, E f, the hooks, the eyes, D D, and the thum bs crews or pins, as represented. Third, the facings of the edges of the lid and its cor-responding aperture with metal, all for the purposes de-scribed.

WIRE BONNET FRAMES-Henry Weed, of Philadelphia Pa.: I claim the method described of forming wire frames for bonnets, viz.: by winding the wire rounc pins or stays, or their cquivalents, arranged as de scribed, on a plate or board, thereby sccuring uniformi-ty and exactness in every particular, as specified.

WRISTLING TOPS-WE. Woodbridge (assignor to Chas. Humphrey), of Perth Amboy, N. J. : I claim the attach-ment, as set forth, of a whistle or other instrument cap-able of producing a musical sound, without regard to the particular form of the top or the mode in which it is set in motion.

Is set in motion. FRENING PAPER TO PRINTING PRESSES—Wm. F, Collier, (assignor to himself and Joseph Boyden), of Worees-ter, Mass. I claim combining with the table (on which the paper is laid) and the sheet lifter. the bar or stand, against which the sheet of paper is driven while being lifted from the pack. The object of such bar being to shake the sheet or produce such a concussion thereon, that should two sheets a dhere together and be lifted they may be shaken apart, so that while the upper one isfurther raised upwards, the lower one may be set free to drop back upon the pack. I also claim the combining with the lifter the sheet elevated and deposited on the top of said lifter, as spe-cified. I also claim the combining with the rotary lifter, the

is pace of deposited on the top of said first, as spe-cified. I also claim the combining with the rotary lifter, the projecting wing, lip, or plate, by which the sheet of Da-peris raised and presented to or upon the inclined planes or rests of the transferrers, as specified. I also claim the transferrer in cumbination with the exhausting lifter and the inclined rails, the sa we being employed to receive and transfer a sheet of paper from its place of deposit on the rails to the press rollers, as specified. I also claim the mode of opening, holding open and

its piace of deposit on the rails to the press rollers, as specified. I also claim the mode of opening. holding open and closing the jaws of the transferrer. viz, by means of the trigger catch lever, the two stops, and the springs ap-piled to the upper jaw. I also claim the movable sheet receder in combina-tion with the inclined rests and mechanism, as describ-ed, for elevating a sueet from the pack and transferring it to the press rollers, as specified. I also claim the combining with the sliding or mova-ble table on which the pile or pack of paper is deposit-ed, mechanism for permitting it not only to fall or move towards the sheet lifter, while the upper sheet of the pile is raised above the lifters, but to hold the table firmly in position while the sheet lifter is being moved away from it or the pile of paper on it, as stated. Exerctions on Pennython uppor GLASS-M. D. & L. W.

ENGRATING OR PRINTING UPON GLASS-M. D. & L. W. Whipple. (assignors to L. W. "hipple & R. B. Fitts), of Somerville, Mass. : We claim the described methou of engraving or lettering upon glass, an engraved metal-lic surface being caused to revoive or vibrate in contact with the surface of the glass, emery, or other suitable cutting material being interposed between the bearing surfaces of the two.

cutting material being interposed between the oracing surfaces of the two. Second, We claim the method described of causing the engraving cylinder to roll in contact with the sur-face of the article to be engraved the parts which carry and give motion to the cylinder being connected with the vibrating lever operating as set forth.

POWDER CHANNEL TO DOORS OF SAFES AND BANK VAULTS-F. U, Goffin, of New York City (assignor to A. B. Ely, of Boston, Mass.: I claim the construction of channels or hollow chambers. in connection with the doors of safes, vaults, &c., the same being open at top and bottom, and reaching from the lock to the bottom of the door, as set forth.

of the door, as set forth. MOLDINOS FOR METAL CASTINGS-David Brown, of Bal-timere, Md. (assignor to J. F. Clark. of Washington, D. C. and David Brown, aforesaid): I claim the arrange-ment of the pattern and piston plate surrounding the pattern, within a chamber or piston box, in relation to the half fask, operated as described, by which I am enabled to protrude the sand into the half flask from said piston box or chamber ann around the pattern, and thus effect a compression of the sand at the part-ting instead of at the central portion of the mold, as has has heretofore been done, for producing more perfect castings. castings.

DUMP-Ira Carter, of Champlain, N. Y.: I claim, first, the mode of attaching the lug described, made to the oylinder, and the grooves to contain the packing.
Becond, the form and operation in the induction valves being housed in by the lug of the cylinder enclosing an air chamber between them, and closing the port holes ou a circle section against the water atterit passes them thereby obviating lost suction.
Third, the form and principle of the core, which may be made a stationary part in a pump, or an operative only.
And fourth, the mode of oscillating by two cranks with friction wheels on their wrists, being brought to act upon one lever between them, vertically attached to that part of the pump to be operated, said cranks being made firm on two parallel horizontal shafts geared to revolve with equal speed, and gathering at the top.

MILK AND OTHER EVAPORATORS—A.F. Dalson, of New York Giuy: I claim the combination of the shallow pan with a rapid current of air underneath the cover, and thence through the central draught pipe, as shown, to gether with the apparatus for continual stirring, by means of the revolving cover and fixtures, as described.

PREPARATION OF ARCHIL-Jonas Eberhardt, of Phila delphia, Pa : 1 ctaim the production of a bright and clear steam purple, without the use of any acid, atter its being printed and steamed, as described.

SMUT MACHINES-H. B. James, of Trenton, N. Y.: claim the combination of the hopper, trunk, spiral pas sage, and separator, effected by means of a common air tight casing, as set forth.

HEEL CUTTERS-A. D. Kelley, of Rochester, N.Y. An HERL CUTTERS—A. D. Aciley, of Koonester, N.Y. An-te-dated March 20, 1554 : I am ware that spring knives have been used in sole cutters, and that they have had screws adapted to them in such a way as to change their form or forms acCording to the sme of the sole to be cut by them ; I thereiore do not claim such. But I claim the combination and arrangement of the fexible yoke and its screws, with the spring blade for the former or pattern, as specified, such flexible yoke and screw encliding a person to change the form of the

and screw enabling a person to change the form of the cutting edge at the knife, or to adapt the knife to any pattern block as set forth.

MAGAZINE REPEATING AND NEEDLE GUN.-Edward Lindner, of the City of New York: First, I do not claim the 'arrel containing the charges, but claim the application of the rack situated between the gun barrel and the cartridge barrel, and the construction of the nix o in connection with the said rack for the

to the arbor, which forms the tumbler shaft, operating as set forth. Second, Locking and unlocking the sliding breech-pin by means of a locking piece which slides in grooves in the stock or shank of the gun and a lever, baving a stud workingfreely in a slot of suitable form, in a plate at-tached to the same arbor as the levers by which the breech pin is operated, the whole being as set forth. Third, fitting the cock and tumbler, or other equiva-lents usually secured to the tumbler shaft. loosely to the said shaft, within the stock or shank of the piece, and causing the cock to be driven back to ock the piece by means of a pin attached to the lever, by which the sliding breech is moved back and forth, whereby the sliding breech is moved back and forth, whereby the sliding Carrow the piece cocked as described.

is introduced, and leave the piece cocked as described. COMBING COATION AND OTHER FIBROUS MATERIALS-JAS. Noble, of Leeds, England : I do not confine myself to the precise details shown and described, so long as the peculiar character of my invection be retained. I claim for the purpose of operating upon fibrous ma-trial, as set forth, and in combination with brushes and draw rollers, or their equivalents, the combining of two rotating rings of teeth, so that not only shall one rotate in and be eccentric to the other, but, so that at or near one point of the revolutions of the two rings, they shall come nearly or quite together or in contact with each other, as specified; such rings. by their co-operation, being made to separate the long from the short fibers of the material when subjected to the action as explained.

as explained. VENTLATED FLOUR BARREL—Thos. Pearsall, of Smith-boro', N. Y.: I claim the manner described of prevent-ing fermentation of flour, meal, or other vegetable com-modity, by dividing the bulk, as specified, that is to say, by means of air pipes or passages, arranged to run through the cask, as set forth, and whereby the flour is prevented from heating and becoming sour at the cen-ter of the cask, by the free circulation of the cold at-mosphere or air through said tubes.

Provs.-Jacob Reversomb, of Boteloust, Va.: What I claim in ploughs with self sharpening points, is the mode of fastening points, the same consisting in the insertion of the keys, through an opening in the land side, as self orth, in combination with a side so placed in the stem of such points that in the different or re-versed position of the points, the slot shall be in place for the reception of the key.

CORDAGE MACHINERY.—Philos B. Tyler, of Springfield, Mass. : 1 claim in the regulator, as described, wherh the tension of the swrand so acts upon a friction braie as to make a uniform resistance, and consequently a uniform tension of the strand or thread.

KEROSENE BURNING FLUIDS.—Abraham Gesner, of Wil-liamsburgh, N.Y. (Assignor to The A sphalte Minng and Kerosene Gas Company of New York City) I claim as new manufactures or compositions of mitter for illuminating and other purposes, the liquid hyero carbons described, which I denominate "A Kerofene," "B Kerosene," and "C Kerosene." Three Paterts.

RE-ISSUES.

Re-ISSUES. DEVING GRAIN.—Henry G. Bulkley, of Kalanazoo, Mich. Patent originally dated, March 2, 1852: J claim the method of seasoning or kill drying substacces by using steam in a vessel which has an opening commu-nicating with the atmosphere to limit the pressure for the purpose of transmitting caloric to the sibstances to be seasoned, or kill dried, in the vessel r vessels containing them, as specified.

containing them, as specified. SwTNC MACHINES-I. M. Singer, & Ewar(Clark, of New York. (Assignees of Chas. Morey & J&. B. John-son, of Bosten Mass.) Patent originally fated. Feby. 6, 1549: In the above machine, we claim the combina-tion of a needle and a hook, as constructed and made to operate together, forsewing cloth. (or sty other ma-terial or materials capable of being sever) as specified. We are aware that an adjustable bar his bees made use of to hold the cloth to the cloth bar. Ind prevent it from being retracted by the withdrawalof the needle, and we therefore lay claim to no such divice. but we do claim the spring or curved arm for the gaparatus by a yielding pressure, in the manner iet forth.

NOTE.-Nine of the applications in the above list were prepared at the Scientific American Pitent Agency.

Iodide of Potassium.

The following is from the "Archives der Pharm." by Prof. A.Overbeck, on the prepara-

tion of the above named useful substance :---"Iodide offormyle is prepared from 3 equivs. alcohol, 6 equivs. iodine, and 5 equivs. potash. If 4 equivs. of iodine be employed to C⁴ H⁶ O², the mass thickens too much by separation of the iodide of formyle produced, so that the greater addition of alcohol is very essential to the facilitation of the operation. This is performed in the following manyer :--

The necessary quantity of watery alcohol (C.4H.5O.,H.O.) is first gently/heated in a beaker or flask; the dry iodine and the potash (the latter dissolved in as little water as possible) are then alternately added, in such a manner that before each addition of iodine the solution is completely decolorized. The iodide of formyle produced separates for the most part during the operation in citron-yellow laminæ; its complete separation is effected by pouring over it 20 times as much water as there was alcohol employed; the whole is then collected on a filter, pressed between blotting-paper, and boiled with solution of potash (1 equiv. of iodide of formyle to 4 equivs. potash) until it is completely decomposed into formiate of potash and iodide of potassium.

This fluid, mixed with that filtered from the

	ward from the end of the cylinder to the discharge	being jurnished with a counter balance weight, to fa-	of the pist a in connection with the said rack for the	founde of formyre, is now evaporated to dryness,	11
	valve, in the manner set forth.	cilitate and steady its swing and relieve the swinging parts from strain when occupying an oblique position	purpose o pressing the cartridges into the revolving	then mixed with some powdered charcoal (for	1
	Third-I claim the protrusion of the piston from the	as specified, by which arrangement the hammer may			1
	end of the cylinder at the end of each stroke in combi- nation with the upward inclination of the top of the	be swivelled from the vertical towards the horizontal	igniting the priming, but I claim the spiral spring	more ready decomposition of any iodate of	11
ш	chamber leading to the discharge valve, as set forth.	position, on either side into radial positions with that portion of the bar or work resting on the center of the	round to e needle, together with the toggle joint at the	potash that may have been formed), and heated	1
		anvil for the purpose of enabling the hammer to be	upper end of the hammer constructed as set forth, and acting upon the needle in such a manner that after said	to redness; the mass, which contains iodide of	1
	COFFINS-John McF. Lyeth, of Baltimore, Md. ; I claim	worked across or round the bar, and to operate alike on	toggle joint has pressed the needle sufficiently far into		łi.
11	the method described of constructing marble slab cot- fins so that the joints shall be tight, and strongly se-	its top and corners or sides to give it around, taper, or polygonal form in its transverse section, or otherwise	the cartridge to ignite the priming, said toggle joint is	potassium and carbonate of potash, is then ex-	11
н	sured to each other and to the bottom, and when rais-	work and shape it with convenience and dispatch, and	forced upwards, allowing thereby the needle to spring suddenly back and pass under the toggle joint by the	tracted either directly with alcohol, or with	1
111	ed by the handles, the weight shall come upon the bot-	whereby the frequent handling or turning of the heavy	action of the above-mentioned spring and by which		11
HH.	tom slab, as described, the whole forming a new article of commerce not hitherto known, or used.	bar or work is avoided.	quick returning motion any heating of the needle is	water after neutralization by hydriodic acid.	11
ш		HEAD GATE FOR WATER WHEELS Hartwell L. Tur-	prevented. Third, I do not claim the revolving breech piece with	Pure iodide of potassium is obtained by crys-	1
111	REGULATOR OF GAS BURNERS-Wm. Mallerd, of Brook- lyn. N. Y.: I claim, first, the perforated cups of parti-	ner, of Strykersville, N. Y .: I claim the manner as de-	spiral grooves on the outside circumference: but I		11
Ш	tions, with their edged rings encircling the perforation		claim the arrangement and manner of working the pin,	talization from either of these extracts."	11
111	in combination with the perforated disk valve and the	specified.	by which the revolving breech piece is made to turn. as described.		11
111	pin points to support it. Second, the series of two or more valve chambers, as	VENTILATING SEWER-Enoch Thorn, of Philadelphia.	Fourth, I claim covering the bottom of the cartridges		11
	described, with their thin valves, each succeeding valve		with a thin skin to facilitate the piercing process of the	The London Crystal Palace.	11
11	having a smaller perforation than the preceding one,	common sewer for the purpose of allowing the sewer to	same. Fifth, I claim the ramming hammer worked as set	The London Crystal Palace, which was re-	11
H	and a slight increase of weight, the whole arranged and operating as set forth.	relieve itself of the compressed air, which at times ac- cumulates in it, so as to prevent the bursting of the sew-			11
ш	Third, making the holes in the jet so as to burn at low	er, or of its overflow into the streets, in the manner set		moved from Hyde Park to Sydenham, near	1
ш	pressure, in combination with a regulator.	forth.	BREECH-LOADING FIRE-ARMS-A. N. Newton, of Rich. mond, ind.; I claim, first, the method described of op-	London, was re-opened on the 10th ult. by the	1
ш	GAS BURNERS-Wm. Mallerd. of Brooklyn, N. Y.: I	Corriss-Philo Washburn, Harrison G. O. White, &	erating the sliding breech pin by means of the lever	0	8
33	claim, first, making the tip where the jet or jets of gas	George A. Copeland, of Taunton, Mass. : We claim, first,	the thumb lever, and the spring, all applied or attached	Queen in person.	ß
13) -			24	1
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