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Water Barris Stranger

[Reported Officially for the Scientific American.]

LIST OF PATENT CLAIMS Issued from the United States Patent Office.

FOR THE WEEK ENDING APRIL 18, 1855.

BLEACHING APPARATUS—Chas. T. Appleton, of Roxbury, Mass. : I claim the combination of an air-tight vat for re-ceiving and retaining the goods, an apparatus for exhaust-ing the air therefrom, and the necessary vessels containing the liquids used in the process of bleaching, whereby the various stops may be performed in a much shorter space of time than has heretofree been required, and without remov-ing the goods from the vat, substantially as set forth.

SASH FASTENERS-W. E. Arnold, of Rochester, N. Y. : I claim the mode, substantially as set forth, of constructing and arranging a slide bolt and case, so as at pleasure to form either a right or left hand lock, the security also of said lock being attained by means substantially as described.

Gas Revorts—H. P. M. Birkinsbine, of Philadelphia, Pa.: I do not claim the D gas retort, nor the passing of gas through a second retort, or heater, nor a retort with a cellu-lar shell, or exterior wall. But I claim the D gas retort with the annular space above, as described, cast with and making a part of it as illustrated.

MACHINES FOR PUNCHING METAL-Marshall Barnett & Chas. Vander Woerd, of Boston, Mass. : We claim so com-bining the punching bar, with a vibrating lever at one end, and a cam at the other end of it, as that it shall always rise and fall in a plane parallel to the bed of the machine, sub-stantially as described.

andfall in a plane parallel to the bed of the machine, sub-stantially as described. MELODEONS-Jeremiah Carhart, of New York City : I am aware that a similar arrangement of the reed hasbefore been adopted, and the air forced upwards through it to produce the ione by the bellows from below, and the hammer caused by the lowing action beneath, but this has only been done in instruments employing a forced current of air produced by the lowing action of the vellows, and the hammer has necessarily been arranged within the wind chest, between passing from the bellows to the reed, whereby much incon-verience arrises in the removal of the hammer and adjust-ment of the reed, and ito remove the hammer destroys or stops the operation of the vellows, and the storys or is not claim. But I claim the arrangement shown and described, in in-struments operated by exhaustion of the sil, of the reeds, valves, and hammers, in relation to the exhausting bellows or passage, so that the hammer is caused to operate out-side of the influence of the bellows, and not between the bellows and the reed, and whereby the hammer may be read-ily elather of the reed without destroying the capa-bility of the reed to splication of buffs consisting of strips of leather to musical instruments generally, or for any other purpose than that which I have specified, and claim their application to reed instruments in connection with hammers substantially as and for the purposes fully

[A description of this improvement in reed instrument may be found on another page.]

GRAIN AND GRASS HARVESTERS - Jarvis Case, of Spring-field, Ohio : I claim placing the line shaft directly above the vertical center of the spur gear of the master wheel, in the manner and for the purpose described. I claim the adjustable anti-friction wheel in combination with the spring, R, and adjustable set screws, rr, in the manner and for the purpose described.

manner and for the purpose described. Exprostrys GAS Excitnes—Alfred Drake, of Philadel-phia, Pa. I do not wish to claim the employment or sp-plication of explosive admixtures of gases to engines. But I claim, first, the igniting apparatus composed of the thimble, so 's'', and the interior tube or blow pipe, y y, ar-ranged and operating substantially as described. Second, the arrangement and combination of the hollow piston rod, piston, and jacket, surrounding the cylinder, for the purpose of maintaining a constant circulation of water for cooling, substantially as described.

LUBRIGATING COMPOUNDS—Nathan Dresser, of Roches-ter, N. Y. : I claim the lubricating compound and its appli-cation tojournals, cranks, axles, and other machinery, sub-ject to friction. using for that purpose the aforesaid compound or any other substantially the same, and which will produce the intended effect.

GAS GENERATOR IN A PARLOR STOVE-S. B. Ellithorp, of Elmira, N. Y.: I do not claim the stove condenser, clar-ifier, or gasometer, these being all well known old devices. But I claim the combination of the coal stove and retorr, as fully described, thus combined making a portable coal gas generator for the purposes set forth.

SHIP'S WINDLASS-James Emerson, of Worcester, Mass. I claim the com bination of the geared sectors, I I, with pawls, J, attached, the part philons, G G, levers, K, and pulleys, H, the above parts being constructed and arranges substantially as shown and for the purpose as set forth. [See a description of this invention on another page.]

PROCESSES FOR MELTING SUGAR-C. W. Finzel, of Brit tol, Eng Patented in England May 7, 1853: I claim the described improvement in refining sugars, that is to say melting the law sugar in a vacuum, preparatory to the fur ther refining thereof in the manner, and for the purposes a set forth. set forth.

set forth. DERDGING MACHINES—C. H. Fonde, of Mobile, Ala. : I do not claim the excavating wheel with buckets across the periphery, nor the tilting tipper for discharging the same, nor the manner of applying power to the same, nor the rais-ing and lowering of said wheel. But I claim the device for keeping the wheel in gear while raising and lowering, and the combination of the radius bar and the sliding carriage which carries the shafts of the pinlon, and also moves the water wheels which slide on the teathered shafts, as this device and this combination of well known mechanical devices b myown invention and hasen-abled me to keep the excavating wheel always in gear with the engine, and has never been so applied before. I claim the self-acting latch, F, in its particular form and mode of adjustment, it being so shaped and adjusted as to hold on to use lid of the bucket until it is struck by the tip-per, and so balanced that by its own gravity it will fall over and latch again before the bucket meters the water, this particular form and adjustment with the jin marked H, does way with the necessity of springs, and is the result of care-ful aix optimistics of the substituent of a single structure is the self active the structure is the self active of springs.

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the punch is at its greatest elevation, when constructed, ar-ranged and made to operate substantially in the manhar de-scribed.

FOR TURNING THE LEAVES OF MUSIC BOOKS-Isaac Gal-lop, of Mystic Bridge, Conn : I do not claim the revolving self-adjusting pullers or finger carriers. But I claim, first, the employment and arrangement of the swinging bars, F F F s, and keys, G G G d, in combina-tion with said revolving self-adjusting pulleys or finger car-riers, D, substantially as and for the purpose set forth. Second, the employment, substantially as shown, of the spring, I, in combination with the spring, H, for the purpose set forth.

set forth. Third, providing a stop, J, on each of the keys, G, and a spring catch. K, on the under side of the top, A', of the case, A, to fit against said stop, substantially as and for the pur-pose set forth.

pose set form. Fourth, providing each of the fingers, C, with an exten-sion, from a to b, for the purpose specified. [A notice of this apparatus for turning music leaves may

be found on another page.]

STUD AND BITION FASTENING-S. W. Hopkins. (assign-or to W. C. Greene, J. T. Mauran, and Chas. Jackson, of Providence, R. I. : I claim the construction of the fastening, as shown and described, viz., having the shank of the stud or button formed of a tube, B. which contains a spiral spring, b. and having a bar, c. fitted in slots, d. in the outer end of said tube, and between the outer end of the spiral spring, b. and a pin, a, attached to the outer end of the tube. The outer side of the bar, c. being provided with a recess, e, which, by means of the spring, b, is kept over the pin, a, and the bar, c. consequently secured in a transversed posi-tion the tube, B.

[On another page a description of this improvement in studs and buttons may be found.]

ROTARY ENGINES—Abraham Masson, of Philadelphia, 'a.: I claim the combination of the four steam cylinders Pa.: I claim the combination of the four steam cylinders and pistons with the curved guide arranged and operating ro as to produce a continuous rotary motion, in the manner and for the purpose substantially as described.

and for the purpose substantially as described. FOUNTAIN PEN-H. K. McClelland, of Elders wille, Pa. : I do not claim, separately, any of the described parts ; but I claim the construction of the implement as shown and de-scribed, viz. having a bag or receptacle, B, placed within a tubular handle, A, the lower end of said bag having a tube, C, attached to it, which tube is provided with a valve, e, and button or spur, c, the tube, valve, and button or spur being enclosed by the pen holder, D, which contains a sponge, G, and is provided with openings or channels, j, through which the penis supplied with ink as the valve, e, is operated as shown and described.

[In the next number a description of this pen will be pub lished.]

HAY MAKING MACHINE—Francis Peabody, of Salem, Mas. : I claim, first, the described machine for making hay, consisting essentially of the rake for gathering the grass, in combination with the revolving scatterer, constructed and operating in the manner substantially as described. Second, I claim revolving the scatterer in a direction con-trary to that in which the machine moves, for the purpose saf forth.

Sectors, a start which the macnine moves, set forth. Third, I claim the employment of a single wheel to carry and acuute the hay makers when this wheel in the cenerof the machine, in the manier and for the purpose set forth.

SHUT-OFF VALVE GEAR-J. B. Schenck, of Ansonia, Ct. : I do not of themselves claim the employment of two cams or eccentrics applied to a single slide valve, theone to open the steem ports, and the other to close them to cut off the view

1 or eccentrics applied to a single slide valve, the one to open the steam ports, and the other to close them to cut off the steam. Neither do I claim making one of the said cams or eccen-trics movable forthe purpose of varying the cut off. But I claim, first, connecting the slide valve with a lever, f, which is also connected at different points with two arms, e', of unequal length, working side by side, and receiving motion, substantially as described, from separate cams on the crank shaft of the engine, or some other shaft having a corresponding motion therewith, the whole operating to give the valve a double movement, as set forth. Second, effecting the connection between the finger wheel, O and the tevel wheel, n, or its equivalents through which the said finger wheel transmits the movements of the gover-nor to the cut-off cam, B', by means of pawls, t, act ng upon ratchet teeth, u, and providing a stud or stop, v, on the opposite can to that which carries the tinger wheel for the purpose, when the cut-off cam arrives in position to give full steam for the whole stroke of the piston, of liberating the pawl by which the motion is transmitted in the direction for retaiding the operation of the cut off cam, and the eby rendering it inoprative, substantially as described. [This improvement in valve gear will be briefly described]

[This improvement in valve gear will be briefly described n next week's SCI. AM.]

Horesz POWERS-JOH AR.] HORSZ POWERS-JOHN Simpson, of Atlanta, Ga.; I do not claim a driving wheel without centralshaft or bearings. But I claim, first, the employment of the large or main vertical driving wheel without central bearings, in combi-nation with the suspension band, in the manner and for the purposes set forth. Second, I claim, in combination with the driving wheel, without central bearings, and the suspension band, the in-ner ruu, K, and the pulley, m, so arranged as to throw the foot of the driving wheel back, all in the manner set forth.

COMPERSATION BEARINGS-Lewis Smith, of Buffalo, N. X.: I claim relieving bearings of machinery from undree pressure and consequent friction, by means of the different expansion of two or more different metals, the parts being constructed, combined, and operating substantially as set forth, or in any other manner substantially the same.

MAKING PRINTER'S INK-C. A. Thompson, of Adrian, Mich. : I claim the composition of oil varuish made in the manner set forth, to be emixed with rosin, soap, lamp black, &c., for printers' ink.

PEN HOLDER-W. H. Towers, of Philadelphia, Pa.: I claim the combination of the sponge with the lever and pen, arranged and operated in the manner and for the purpose described.

DIES FOR BOLT FORGING MACHINES-J. T. Willmarth, of Northbridge, Mass, : I claim the tapering conical dies, bb, constructed and operating in the manner described tor the purpose set forth.

the purpose set forth. PAPER RULING MACHINE—T. J. Baldwin, of Bridgeport, Conn. : I claim lifting the pens, X, from the sheets of pa-per, a', at the proper intervals by means of the mechanism shown and described, viz, having the front edges of the sheds, a', as they move along on the endless apron, B, strike squainst a pendant, f, attached to apulley, D', on at ansverse shaft, N, on the frame, A, said shaft being provided with a pulley, Ø, at one end, having a recessor groove, e, cut in its periphery, and a cam, Q, the pulley, O, working on bear-ings on a pulley, M, underneath th, said pulley, M, being driven by a belt, d, from the driving shaft, c. The cam, Q, operating a lever, T, by which the spring clutch is allowed to act and connect the pulleys, K R, atone end of the drium, L, the projections, V, on the lower pulley, R, raising the pen stock so as to leave the blanks or spaces at the desired parts of the sheets, as set forth. [To properly explain this invention, engravings are ne-

[To properly explain this invention, engravings are necessary; however, we will give a short description of it next week.]

PIANOFORTE ACTION-S. P. Brooks, of Suffolk, Mass. :

rangement of the adjustable, smooth, or servated rollers, whose axes cross each other, as set forth, with the guide plate and slides, and guide rollers for making seamless met-al tubes, as described.

At tubes, as described. HAY PRESS—Pells Manny, of Waddams Grove, Ill.: I claim having the followers, G G. arranged or placed so as to cross or intersect each other at right angles and inclined, as described, and having the doors, H I, at each end of the box or case also inclined to correspond inversely with the fol-lowers for the purpose of having the hay compressed in the form of square bales, the line of pressure being diagonally through the hale, or the followers and doors exerting the pressure on the four sides of the bale, as shown and descri-bed, whereby little or no pressure is exerted against the sides of the box or case.

[A brief description of this press may be found on another page.]

A sec. J Gas COOKING STOVES—Andrew Mayer, of Philadelphia, Fa.: I do not claim as new in stoves, separately considered, the several parts or devices specified. But I claim the arrangement shown and described, of the gas lamps or burners with their overhanging perforated plates or openings, side apertures or passages for distribu-tion of the heat oven, and hot air chambers or boxes situa-tied at the sides of the oven within the body of the stove and provided with lids and slide valves, as set forth, and for the purposes specified.

[Gas being destined to take the precedent of other fuel in urcities, within a few years, good inventions of this kind, secured by patent, will eventually become valuable. See notice of Mr. Mayer's improvements on another page.]

SLIDE REST FOR LATHES-C. A. Noyes, of Pittsfield, Mass.: I claim constructing the slide rest, as shown, viz., having the top. H, of the sliding box. C. rest upon a shaft, I, and inclining or tilting said top by means of the screw. E, toothed wheel, F, pinions, L L G, screwroods, K K, and nuts, JJ, substantially as shown, whereby the edge of the cutting tool which is secured on the upper surface of the cutting tool which is near a discussion of the screw and in a proper position to the article to be turned.

[The nature of this invention will be described in nex week's paper.]

LIFE PRESERVING DOORS-J. T. Pheatt, of Toledo, O. I claim the arrangement shown and described of the inflate I claim the arrangement shown and described of the inflate ble water-proof coverings or bags on or over the panels an within or below the face level of the surrounding and in termediate framework of the paneled door or partition, a aud for the purposes set forth. [Another life preserver. Seenotice on another page.]

CULLIVATORS-John Stryker, of Six Mile Run, N. J.: claim the application or use of front and rear supports or supporters, which not only answer all the purposes of wheels, but regulate and govern the action of the coulers in the ground, constructed and arranged substantially in the man-ner and for the purpose set forth.

GRAIN AND GRASS HARVESTERS—Philo Sylla, of Elgin, Ill.; I claim, first, hanging the sickle stock, G. to the ends of the levers, E and I, which carry it by means of the hinges, H and J, or their equivalents located at the diagonal cor-ners of said stock, substantially as described for the purpos-es set forth. ners of said es set forth.

es set forth. ROTARY ENGINES—John J. Thomas, of Manayunk, Pa. : I claim, first, the attachment of a piston, D, to a disk which forms one side of the working cylinder or piston chamber, nal works in contact with a bearing face, f, on the cylin-der outside of the piston, and another face, g, inside of the piston, substantially as show nan di described. Second, constructing the engine, substantially as descri-bed with a central chamber, c, within or surrounded by the working cylinder or piston chamber, h, and with another chamber, m, on the opposite side of the disk, C, which car-ries the piston, and establishing communication between the chambers, b and c. by a recess, d. in the disk on one side of the piston, and between the chambers, b and m. by an open-ing through the disk on the other side of the piston, either of the said chambers, c or m, being the induction or suction chamber, and the due avents of a discharge chamber, and the said chambers applying the cylinder and receiving its discharged contents, as set forth. [On another nave may be found a short notice of this im-

[On another page may be found a short notice of this im provement.]

SLIDE REST FOR LATHES-Chester Van Horn, of Spring-field, Mass. : I do not claim the carriage, B, nor any mode of operating the same : neither do I claim the transverse movement of the tool block, C, on the carriage, B, for these

movement of the tool block, C, on the carriage, B, for these are common to most slide rests. I claim forwing the tool block, C, of two parts, c 4, and connecting said parts together by a dovetail or its equiva-lent, so that the upper part, c. may slide or work on the lover part, d, the faces of the two parts, c 4, that are con-nected, being bolved or inclined, as shown, and the part, c, being moved or operated by a screw, E, or its equivalent. The purpose of elevating or depressing the tool, G, as de-scribed. The Louiswille Leven to the two parts, c 4, and the part, c, being moved or operated by a screw, E, or its equivalent. The Louiswille Leven to the two parts, c 4, and the part, c, being moved or operated by a screw, E, or its equivalent. The Louiswille Leven to the two parts, c 4, and the part, c, being moved or operated by a screw, E, or its equivalent. The Louiswille Leven to the two parts, c 4, and the part, c, being moved or operated by a screw, E, or its equivalent. The Louiswille Leven to the two parts, c 4, and the parts of the two parts, c 4, and the parts of the two parts, c 4, and the parts of the two parts, c 4, and the parts of the two parts, c 4, and the parts of the two parts, c 4, and the parts of the two parts of the two parts, c 4, and the parts of the two parts of the

[A description of this slide rest will be published nex week.]

METALLIC HONES-Wm. H. Webb, Jr., of Chelsea, Mass. : I claim a hone constructed with its sharpening surface com-posed of a combination of metals of different degrees of den-sity, and arranged together substantially as specified. Not intending to claim the broad ground of constructing a hone ofmetal.

FURNACE FOR LOCOMOTIVES-O. W. Bayley, of Man-er. N. H., (assignor to Manchester Locomotive Work ter, N. H., (assignor to Manchester Locomotive Works): I claim the within described arrangement of the compart-ments, F , communicating with each bther by the open-ing, L. and with the combustion chamber, K, by the open-ings, L. Whereby the unconsumed gases from the incship feat fire are heated by passing over the whole length of the incandescent fire, and consumed in the chamber, K, in the manner substantially as set forth.

manner substantially as set form. RAKES-Henry Chatfield, (assignor to Henry Chatfield and Theodore L. Snyder.) of Waterbury, Coun. : I claim constructing the teeth or times of a rake or fork separately, with square or an equivalent form of a pertures through the heads thereof, and uniting them by a single bolt, accurately fitting and passing through all the said apertures, and through a similar aperture in the shank of the instrument, the teeth or times being kept at suitable distances apart by washers or blocks, placed upon the bolt between them, or y enlarging the heads thereof for the saius purpose, the whole being secured tirmly together by a nut screwed upon the end of the bolt, or in any other suitable manner.

FOLDING TOPS FOR CARRIAGES-William G. Foglesong (assignor to Wm. G. Foglesong and Benja. D. Anderson, of Xenia, O. I claim the application of a catch, a, as de-scribed, or its equivalent, in front of the hinge which unites the principal bow or slati front to the stem, for the convenien stretching, &c., of a carriage or buggy top as explained.

PROFELLERS-William D. Jones, of Foughkeepsie, N. Y. (assignor to Henry Whinfield, of New York Uity): I claim the arrangement and combination of the parts forming a propeller, as fully set forth in the foregoing specification, for the purposes mentioned.

ELASTIC TUBE PUMP-Rufus Porter, of Washington, D. C., and Jonathan D. Brauley, of Bratileboro, Vt., (assig-nors to Jonathan D. Brauley, aforesaid, and George Den-nison, of New York City): We claim, first, the mode of evanlizing the resistance by a truncated cone of cradually

ployment of the lune form button constructed as described, which has a movement on its axis in the manner set forth, for the purpose of allowing the thread to slip alternately into and out of the concave in its periphery, and thus pass into and out of off the shuttle.

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CAST IRON PAVEMENTS-George Neilson, (assignor to himself and Nebemiah Hunt) of Boston, Mass. I do not claim apavementblock of hexagonal form, nor with a pe-rimeter formed by six hexagons disposed around a common

Timeter formet op six nexagons isposed around a common or central hexagon, as shown. But I claim making a paving block with a perimeter of thirty faces, arranged as shown in figure 1, and formed by sixteen hextagonor hextagonal prisms disposed with re-spect to one another as therein represented, the sume enab-ling such a block, where it abuts against a contiguous block when laid in a puvement, to be supported laterally by a semi hexagonal projection and recess, as described.

ADDITIONAL IMPROVEMENTS

SADDLE TREES-WIN E. JORS, of the U. S. Army. Orig-inal patent stated June 23, 1854 : I claim the combination with the hinged pommel and cautile of the self-adjusting side pieces for the purpose of preventing an unequal pres-sure upon the edges of the side pieces, howevermuch the saddle tree be expanded or contracted.

The specifications and drawings of FIFTEEN of the patents in the above list were prepared at this office.] -----

To the Editor of the Scientific American.

SIR.-In your paper for March 31, I see that you have stated that a patent was issued to A. Bruer, of Mechanicsburg, Ill., for improvements in Corn Harvesters, which is a mistake, as it was issued to Gardner A. Bruce, and secured through your agency.

Respectfully, G.A.B.

Hotchkiss' Tramblock.

The National Intelligencer (Washington, D. C.) speaks in terms of the highest praise respecting the tramblock of Gideon Hotchkiss, of Windsor, Broome Co., N. Y., the wellknown inventor of "Hotchkiss' water wheel." His tramblock is stated to adjust and set the foot of the spindle of the mill stone, with the most perfect accuracy. Out of ten large flouring mills in Georgetown, Alexandria, and the vicinity of Washington, nine have adopted it. It was on exhibition at the Fair of the Metropolitan Institute, in Washington, and met with the approbation of all the millers who saw it. Some of the largest millers in Western New*York are also about adopting it-Angevine & Co., of Rochester, and L. A. Spaulding, of Lockport, being among the number.

To make perfect milling it is well known that the faces of the stones in grinding grain must be set relatively in distance to one another, with the utmost accuracy, or good work cannot be performed by them. This

Internal Transportation and	d Travel.
The Louisville Journal estin	nates the cap-
ital invested in canals, railro	oads, &c., at a
thousand millions of dollars.	It is divided
thus :	
Railroads and their machinery	, \$600,000,000
Canals,	100,000,000
Steamboats,	70,000,000
Vessels in the coasting trade,	130,000,000
Turnpikes, stages, wagons, and	l
canal boats	100,000,000

Total \$1,000,000,000

Inferior Gold Coins.

A correspondent writing to us from Lexington, Texas, says that merchants will not take the gold \$50 pieces, U. S. coin, of 1852, for more than \$49, and makes the inquiry, "are these pieces really worth no more?" "If so," he says, "Uncle Sam has practiced a fraud upon the people." He wants us to give him information on this subject, but really we cannot. The Superintendent of the Mint at Philadelphia is the proper person to afford such information, and as a matter of justice to the public ought to do it.

Crops in Tennessee

- 14	I also claim that particular combination of chutes or sluice	claim transferring the blow from the key lever to the nam-	equalizing the resistance by a truncated cone of gradually		£
- 1	ways, G G, which form an apex under the discharging tip-	mer by means of the vertical bar, arranged and actuated	diminishing thickness, by which the roller may leave the	The Franklin <i>Review</i> says, the wheat crop	F
- i I	per and pass athwartship, on an incline towards the scows,	substantially as described, whereby I am enabled to place the action befow the level of the keys, as set forth.	tube in combination with a lift, S, below, as specified.		
	which particular combination has enabled me to discharge	I also claim attaching the damper arm to the vertical bar,	Secondly, the relieving the spring of the tube, and the allowing the water to recede by means of jointed arms, ec-	in that region of Tennessee is unusually	L
- i	an excavating wheel latterally on either or both sides.	in such a manner that the up-and-down movement of the	centrics, or cams, as specified.		i.
	GRAIN AND GRASS HARVESTERS-E. B. Forbush, of Buf-	said bar will alternately bring the damperagainst thestring,	Thirdly, the mode of attaching the tube to the helical	promising, and the only danger now appre-	F
	falo. N. Y. : First, I claim the combination of the gearkey,	and relieve it from the same, as set forth.	band by means of forming the latter in two parts, and by	hended to it is, that it is growing so rapidly	1
	D, with the gearing, substantially as set forth.	, I also claim themeans used for keeping the hammerclose	means of a band or molding on the former as specified for		
	Second, I claim the extension of the platform timber, SS, beyond the finger bar, so as to connect it to the main frame	to the string, after the blow has been given, the same con- sisting of a but attached to a vertical bar, and actuated by	the purposes set forth.	that the late frosts may injure it. If not,	
	of the machine near the driving wheel, with the view of	the key lever, as described.	[We are happy to see the name of our old friend Rufus	the crop promises to be a first rate one.	
	giving strength and stiffness to the platform, and bring its		Porterrecorded once more among the successful applicants	the crop promises to be a mist rate one.	
Ι.	weight as much as possible, on the main frame near thedri-	INDIA RUBBER SPRINGS-W. F. Converse, of Harrison,	- · · ·	and the second s	Ľ.
- 1	ving wheel, substantially as set forth.	O.: I am aware springs of india rubber and other similar materials have been completely contined in cylindrical and	for patents. But where is the aerial steamship ?]	Stupendous Railroad Bridge.	
- 1	Third, I claim as improvements upon the clamp, the locks, n r s. substantially as described.	other unyielding cases, such an arrangement therefore I do	SEWING MACHINES-E. Harry Smith, of New York City,		t-
-	Fourth, I claim the improvement of the second angle, c r,	not claim.	(assignor to The Wheeler and Wilson Manufacturing Com-	A railroad bridge of monstrous dimensions	t.
- 1	in the brace bar of the guard finger, substantially as de-	But I claim the method of confining a cylindrical or pris-	pany, of Watertown, Conn.): I am aware that machines	has just been completed, over the main chan-	1
	scribed.	matic block of india rubber at all points of its surface by	have been before constructed in which a rotary shuttle has been used, and also that a machine has been made which is	has just been completed, over the main chan-	L
	Molds For Casting Prncil Sharpeners-W. K. Fos-	means of a jointed or otherwise flexible cylindrical strap, connected to double levers or their equivalents, for applying	the subject of a patent granted to Allen B. Wilson, and	nel of the river, at Maumee. It is 780 feet	Ł
	ter, of Bangor, Me. : I claim the arrangement of the spring	the compressing strain convergently or radially upon the	dated June 15th, 1852, in which a combination is used of a	,	E
- 1	holder, G, sliding plates, J and 1 ² , in relation to the grooved	enclosed rubber.	bobbin with a rotating hook, which operates upon the loop	in total length, and 55 feet in hight from the	
	core, D, and gauge, K, for the purpose of adjusting and	I likewise claim in this connection adjustable end plates	in such a manner as to throw it over the bobbin; but I	water level to the roadway. It is built on	E
	holding of the blade, H, in the mold, and the formung of	for securing the rubber from lateral expansion and for grad-	would have it understood that I make no claim to any such rotating hook, or any rotaryshuttle except that represented.		
-	the slot in the pencil sharpeners, as set forth.	usting the elastic force of the spring, if desired by means	I therefore claim a discoidal s buttle having its bearingsin	the "Howe-truss" principle, and contains	Ł
	MACHINES FOR PUNCHING METAL-De Grasse Fowler &	of screw nuts or equivalent devices, substantially as de scribed.	its periphery, and revolving around its own axis when con-		E
	George Fowler, of Wallingford, Conn. : We claim the pecu-		structed substantially in the manner and of the form de-	315,000 feet, board measure, of pine lumber,	ż,
ö	liar manner of connecting the operation of the two levers,	ARRANGEMENT OF ROLLERS FOR MAKING METAL TUBES.	scribed.	40 tuns of wrought, and 30 tuns of cast iron.	3
- ie	n uk, to throw the machine out of gear at the time when	-M. R. Griswold, of Watertown, Conn. : I claim the ac-	And as a means of propelling the shuttle, I claim the em-		b)
16.	2. A				÷.
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