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# Scientific American



[Reported officially for the Scientific American.] LIST OF PATENT CLAIMS Issued from the United States Patent Office

FOR THE WEEK ENDING AUGUST 11, 1857.

MOWING MACHINE-Wm. Bacheller, of West New-bury, Mass. I am aware that the thill frames and cut-ter frames have been variously connected, and in many instances by flexible joints, but not in the peculiar man-ner described.

I claim the combination of the thill frame, I, with the cutter frame, F, when said frames are constructed and used in combination with the supporting wheels, B B, and operating wheels, C C, in the manner and for the purposes set for h.

AUTOMATIC LUBRICATOR FOR R. R. CAR AXLES-Wm. Baker, of Utics, N. Y.: I am aware that machines have been constructed to lubricate car journals, by con-veying the oil, or other lubricating material. from a res-ervoir below to the journal, by means of capillary attrac-tion, by the use of cotton wicking, cotton cloth, cotton wate, coarse wool, or other porous or spongy substance applied between the oil and the journal, and also by the action of various mechanical agencies and constructions placed under and around the journal, and depending for their action upon motion to be communicated to them by the revolving action of the journal. I do not, therefore, claim any such agency. and what-

by the revolving action of the journal. I do not, therefore, claim any such agency, and what-ever contrivances may have been constructed by the use of bobs or pendulums to convey the oil to the journal, and moved in any manner by the motion of the cars. But I claim the mode described of conveying and ap-plying the lubricating material to the journals of railroad cars and locomotives, by ejecting the same from the reservoir to the journal by the use of the piston, as de-scribed, which is moved directly by the jar or concussion when the car or locomotive is in motion, without the aid of capillary attraction, or the use of any absorbent what-ever, or any mechanical agency to be propelled by the revolving action of the journal, the same being arranged and operating substantially as set forth.

ROTARY VENEER MACHINE-Gilbert Bishop, of New York City: I claim, first, The revolving disk and knife placed eccentrically to the disk upon the under surface or upon the edge of the disk, and having a curved edge for cuting the log in the line or direction of the edge of the knife. Second, The vibrating of the log, by means of the log box, arms, cams and toes, connected with the rotation of the shaft of the disk, as described, so as to present the whole top surface of the log to the edge of the knife as it preses, and by a continuously varying line of cut or stroke. Third, I claim the manner of construction the

stroke. Third, I claim the manner of constructing the log box with the movable bottom, composed of the cell and clomp pieces for holding, shifting and adjusting the boxes de scribe Fourth, I claim the combination of the log box and feed apparatus operating together, as described.

DREDGING MACHINE-Asa Blood, Sen., of Norfolk, Va.: I claim, first, The dog, E, in combination with the beam, A, and rok, a, operating as described, for the pur-pose of holding the dredge epen in descending, and for relieving its hold by its own weight as soon as the weight is taken of the chain or rope. Second, The combination of the levers, B C and C', with beam, A, and rod, e, operating as described, for the purpose of opening and closing the dredge, as described.

GLASSWARE HOLDERS-Hiram Dillaway, of Sandwich, Mass. I claim an instrument composed of a han-dle, a supporting plate. a yoke, and a spring combined, to operate substantially as described, for the purpose set for the whether the yoke be provided or not with an in-ternal holding die, g, as specified.

[This relates to the holding of glass bottles, lamps, bowls and other glassware during the manipulations necessary in their manufacture. It is a very convenient device, and far less liable to break the ware than the means usually employed; further than this, it never fails to hold all articles exactly in the center.]

HULLING COTTON SEED-Wm. R. Fee, of Cincinnati, O.: I do not claim the device shown in the mill of Walker, patented in 1855, or any other form of mill dress becauforce known

Walker, patented in 1550, or any other shind of and theretofore known But I claim a series of cutting edges with deep inter-vening furrows, for the purpose of hulling cotton seed by a cutting action, which renders both the screening pro-cess and the expression of the oil easy and complete, as set forth.

WATER CLOSETS-Lewis Fisher, of Buffalo, N. Y.: I disclaim removing the cover by the weight of the person upon the seat, breadly considered, as this has heretofore been done in the construction of water closets. I claim the arrangement of the sliding cover, A, with the jointed seat, D, and springs, B, for the purposes and substantially as described.

PLANING MACHNESS-Benaiah Fitts, of Worcester, Mass.: I claim in driving gears on feed rollers for wood planing machines, the internal gear, F, and the external gear, G, in combination with the pinion, H, and con-necting arms, I and J, when constructed and operated as set forth and described.

MOWING MACHINES—Alanson Gale, of Poughkeepsie N. Y.: I claim operating the cutter bar, f, from the master wheel, A', by means of the mechanism construct-ed and arranged in relation to the main frame and master wheel of the machine, substantially in the manner de-scribed. scribed.

WHETTING PLANE BITS-Jesse M. Gilstrap of Wash ington co., Ark. : I claim the use of the bit holder, H constructed as described, when operated by the device arranged in the manner and for the purpose specified.

Hommy Mills-J. B Gowdy and J. A. Welsh, of Xenia, Ohio: We are aware that beaters secured to ro-taing shafts and placed within a case, have been pro-viously used for cracking corn., and for analogous purpo-ses. We therefore do not claim the beaters, f, attached to the shaft, C, separately or in themselves considered. But we claim the shaft, C, provided with the beaters f, and flanches, e, in combination with the horizontal plates, d, within the periorated case, A, substantially as shown, for the purpose set forth

By this mill the grain is thoroughly scoured, winnowed and cracked. The shaft is upright and hollow, and provided with both annular flanches and beaters, which travel between annular flanches projecting in. ward from the interior of the case. The feed is regulated by a slide, and the mill works very rapidly, and occupies but a small space.]

CURTAIN FIXTURES—Nathaniel S. Graves, of Boston, Mass : I do not claim, broadly, fastening the curtain to the roller by securing it to a wire or rod that is intro-duced into a groove in the roller, having a narrow slit for the passage of the curtain, but this I only claim when the sides of the groove are dovetailed, as described, whereby the curtain is securely hold to its roller with-out other fastenings, as set forth.

MANUFACTURE OF SULFRURIC ACID-Alfred Mon-nier, of Camden, N. J. : I claim the process of propar-ing native metallis sulphured, by pulyerising them and mixing them with the substances, as described, in order to extract all or nearly all the sulphur from them, for the purpose of making sulphuric acid.

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BREWERS' STRAM BOILING APPARATUS-Adolph Hammer, of Rieading, Pa.: Disclaiming connecting a series of branch pipes may be rotated. In the manner described by A. Stillman in his patent of May 16, 1846. I claim arranging the steam pipe in boiling apparatus in two or more separate and distinct parts or series, in the manner substantially as described, whereby either both or all parts or series of pipes my be elevated by rotating the same upon axes of rotation at or near the center of the tub, for the purpose specified Study Character, Samuel lung of Nar York Citra

center of the tub, for the purpose specified Stirps' CAPSTARS-Samuel Huse, of New York City; I am aware that capstans have been arranged to give a more rapid motion, or one with increased power, by con-nesting or disconnecting the drum and barrel, and at the same time throwing into play or out of play internal gearing, or by changing the direction of motion the drum and barrel, and therefore do not claim generally the con-struction of a capstan to accomplish these ends. But I claim the arrangement and use of the hollow shaft, D, attached at one end to the drum or head, and in combination therewith the movable gear plate, G, constructed substantially as described, and worked by a plainor on the lower e d of D. I also claim, in combination with such hollow shaft and movable gear plate, the arrangement of the clutch levers, or an equivalent thereoi, for the purpose of con-necting such movable gear plate to the barrel, or vice versa, and thus changing the action of the capstan to a quicker or more powerful one in a moment, and without changing its motion or displacing any gear. STEERING APPARATUS OF STEAM CARRIAGES-Ed-

STEERING APPARATUS OF STEAM CARRIAGES-Ed-ward C. Jones, of Pittsburgh, Pa. : I am aware that the lever arrangement which communicates the motion from the parts operating the steering wheel to the clutches of the driving wheels may be modified and changed in many different ways, by various mechanical means; I thereiore do not confine myself to any particular, or to the special lever arrangements described, to effect said communication of motio, or power.

Inc special lover arrangements described, to effect said communication of motion or power. But I claim first, Operating the clutches, J J', of the driving wheels by the same parts by which the steering wheel is operated, in such a manner as to disengage (by operating the said clutches) the one or the other of the driving wheels, simultaneously with the turning of the steering wheel to the right or left, substantially as set forth. Second I claim the

forth. Second, I claim the arrangement of the lever, M, links, P P. levers, N N', with their arms, O O', confact-ed therewith by a butt hinge joint, and the springs, Q Q', when constructed, combined and operating in connection with the pinion, E, and the clutches, J J', substantially as described, and for the purpose set forth. Third, I claim the arrangement of a pivot, a, in or near the center of the steering wheel, and passing through its axle, for the purpose set forth.

SHIPS' CAPSTANS—David Knowlon, of Camden, Me.: I do not claim making a power capstan to operate by means of a combination of gear-, ratchets and pawls. But I claim, in my improved capstan, the combination of the grar, K, at the bottom of the capstan (when made and applied so as to be rotated or be made fast alternate-ly, as described.) with the gear or pinion, G, attached to and revolving with the capstan head, C, they being con-nected by gears, and operating in the manner and for the purpose described.

AUTOMATIC LUBRICATOR FOR R. R. CAR AXLES-Alexander B. Latta, of Cincinnati, Ohio: I claim the arrangement of the lever, v. rod, w. and spring, x. com-bined with the car, y. as represented, or their equiva-lents, for actuating the lubricator, by the vertical vi-brating motion of the cars, as, and for the purposes men-tioned.

FAUCET-John C. Macdonald, of Cincinnati, Ohio: 1 claim the arrangement of the valve stem, H', the nut, o the valve guide, F, the screw, C, and the cap or screw and nut guide, Q, which also contains the stuffing box m for the purposes set forth.

[This is one of the forms of screwvalve faucetnovelty consisting in a peculiar screw, nut and guideby which the valve stem is prevented getting out of line, and the valve surface is kept true to its seat. Great facility is also afforded for re-grinding the valve when necessary.]

SILK DVEING MACHINES-Nicholas Mary, Son., of Philadelphia, Pa. : I claim the combination of the steam chambers, B and L, with the friction surface of rollers, D, E and F, for preparing and dyoing the material, the whole being arranged and operating substantially as de-scribed.

LEAKAGE ALARM-G B. Massey, of Mobile, Ala.: I claim the arrangement of the parts cited relatively to one another for united operation, to produce a leakage alarm and register for ships, to wit, the bell D, arranged on a firm part of the vessel, B, the spring, F, within the barrel, E, and the barrel within the bell, the float chain G, on the spring barrel, E, the hammers, I F, within the bell, the pin wheel, J, and the mechanism by which they are operated and controlled on the arbor of the spring barrel, and the bergring which measures the rise and fall of water alongside the signal mechanism, and so as to be actuated by the spring barrels sounds the alarm, substantially as and for the purposes set forth.

[In this device, a float within the hold of the vessel is so connected to striking apparatus and to a dial and registering apparatus, that by reference to the two latter the true depth of the water in the hold may be ascertained. and also the rate at which the surface of the water is rising or falling, while the striking apparatus, by acting on a bell attached, gives instant warning when the water rises to such a hight as to demand attention.]

rises to such a hight as to demand attention.] REFING TOFSAILS-James W. Norcross, of Boston, Mass. I do not claim carrying the reef tackles from the reef band upward through blocks placed at or under cross trees, and from thence down to the deck, where by all that part of the sail which is below the reef band is susponded or drawn tightly up while the yard is being lowered down to or towards the reef band. Nor do I claim reducing sails by means of an arrange-ment of reef tackles, wherein each reef is fastened at one end of it to the topsail yard is thence led down through a leading block instened to the reef band of the sail, thence carried upward to and through the yard, and around a sheave placed thereon, and thence carried to the topsail yard near to the middle thereof, thence up-ward throm the said leading block to and through a lead-ing block affixed to the cross tree, thence downward therefrom and fastened to the topsail yard. But I claim my arrangement of reef tackles described.

But I claim my arrangement of reef tackles described, the same consisting in fastening the said reef tackles to the sail at or near the reef band, thence leading them upward through sheaves or blocks, or their equivalents, applied to the topsail yard, and from thence extending the said reef bands upward and through blocks suspend-ed to the cross-trees, or that part of the topmast just be-low them, and thence leading the reef tackles down-ward, and fastening them to the topsail yard at or near its middle, substantially as described.

FILTRATION PRESS\_Wm. Needham and Jas. Kite of vauxhall, Eng.: We do not claim the exclusive use of any of the parts, taken as parts of the apparatus de-scribed and shown, but only in so far as the same is used in combination, for the purpose of our invention. We claim the exclusive use of the combination of parts described, forming apparatus or machinery for express-ing liquids or moisture from substances.

BATHING APPARATUS—John Substances. BATHING APPARATUS—John K. O'Neil, Kingston, N. Y.: I do not claim an annular showering pipe separate-ly, such, or its equivalent, having been used before in other connections. But I claim the combination of the annular pipe, E, or its equivalent, operating substantially in the manner and for the purpose specified.

for the purpose specified. SAUSAGE CUTTERS—Jacob Peters, of Hummelstown, Pa.; I claim the employment of the vertical sashes, a and b, the one arranged within the other, their knives interlapping and operating in different directions, for the purpose of sawing and more effectually preparing the meat, as set forth and described, it being understood that I do not claim the main features of the machine, as it is not, in that respect, now, nor yet the device merely of giving a sawing motion to the fixed knives of meat cut-ters, this also being not new; but only the arrangement here specified of two sets of knives working into each other with motions in opposite directions.

GAS GENERATORS—Allan Pollock, of Washington, D. C.: I claim, first, The peculiar form and arrange-ment of the retort with the grooves for the passage of the gas from the vent holes of the canister to the gas chamber Second, The canister, with the vent holes above de-scribed, by which I take the gas from the center of the canister, the lid extending down to or near the top of said yent holes.

said wont holes. SATETY TOPS FOR RAILWAY CARS—Albert Potts, of Philadelphia, Pa.: J claim, first, The mode or manner of constructing railway passenger cars with the tops and bodies disconnected for the special purpose specified. Second, I also claim the metallic plates or grooved and beveled rails as above described, for uniting the tops with the body of the car, as specified. Thirdly, I also claim the combination of the pendu-lums as tully described in Figs. 3 and 9, for the purpose of holding the tops to the bodies of the cars, substantially as specified.

OPERATING CAR BRAKES-E. R. Roe, of Blooming-ton, Ill., I claim the combination of the "anchor" F in its connection with the arm, E, and the pin, G, and operated as described by the cams and pins in connec-tion with the wheel, U, in the manner described, and for the purpose described.

the purpose described. MASH COOLING MACHIWES-Jesse Shilling, of Troy, N. Y. I claim the hollow arms, b, with the hollow techt, c, attached, said techt, some or all, having lateral shares or projections, f, attached, the hollow arms, b, being attached to a rotating shart. B, and communicat-ing with a pipe, G, which is connected with a fan box, H, the whole being arranged substantially as described for he purpose set forth.

[The mashing rake is hollow, and air blown into it by a fan or other suitable blower escapes from the bottom and sides of the hollow teeth, and rising through the liquid couls it very rapidly.]

GRAIN MILLS-O. W. Stanford of Cincinnati, O.: I do not wish to be understood as claiming any particular number of concentric channels, f, and grinding sur-faces g; nor the shape of said channels and the manner of furnishing the grinding surfaces with teeth.

of furnishing the grinding surfaces with teeth. But I claim the alternate channels, f, and grinding surfaces, g, as represented on the surfaces of the plates, d and h, when said alternate channels, f, and grinding surfaces, g, are made concentric with the center of mo-tion given to the plated, and when arranged with each other, and operated in the manner and for the purposes shown in the specification.

WINNOWING MILLS-Manassah Grover, of Clyde, O., assignor to himself and H. Seely, of Hudson, Mich. 1 claim arranging in the throat or opening of the fan case, a series of troughs or scoops, c, in combination with the obtuse angles, E, of the fan blades, in the manner and for the purposes tully described.

Predive Boors and Shoes.—B. F. Sturtevant (as-signor to himself and Elmer Townsend), of Boston, Mass., I claim the bell shaped feed wheel, A, and its arrangement with reference to the awl and peg wood carrier, and provided with one or more ranges of holes substantially as described, the awl being made to work at an inclination to the axis of the feed wheel or from the axis towards and through the rim of the wheel as de-scribed.

scribed. I also claim the above described mode of feeding the shoe along—that is, by the awl or its equivalent and the feeder wheel, the latter net only assisting in feeding the shoe along by the pressure and action of the ranges of tapering holes, but in holding the shoe in position while the awl is raised out of the sole.

ExrAnsing Aucer Bit-Asa Weeks (assignor to himselfand O. W. Fiske) of South Boston, Mass. I do not claim the invention of movable cutters ; nor do I claim the employment of a double threaded screw for adjusting the distance of a lip and cutter as shown in the patent granted to J. P. Rollins, December 25, 1855. But I claim combining with the double threaded screw, C, and arranging on the split tapering shank as described.

LIME KILNS-Daniel Stephens, of Elmira, N.Y.: I claim the diagonal or oblique flues with sloping bottoms arranged substantially as described in combination with the shait, B, and its branches, b b, for the purpose speci-fied.

FILTER-J.A. Thompson, of Cayuga, N.Y.: I do not claim the ordinary cask filter with pot or reservoir with attachable metallic air and draitules, the whole fitted with charcoal, alternated with gravel, sand, &c., the same having been known and used.

the purposes set forth. TEA KETTES-Wm. Westlake, of Milwaukie, Wis. : I am aware that tea kettles have been made having lateral pipes attached for the admission of gas as a fuel. An example is seen in Bogget & Petti's patent, Aprill 8, 1834. I do not claim such tea kettles. They are quite different in construction from mine, are used for a diffe-rent purpose, and operate in a different manner. No air would enter through the fine apertures of their burners. My kettle forms a highly useful household ar-ticle, and is not dependent for its operation upon a pres-sure of coal gas. I claim as a new article of manufacture a tea kettle made as described.

[The object is to economize fuel by making the heat

of the fire more intense directly under the kettle. The invention consists in constructing a tube entirely through the kettle, so as to lead air down through the kettle into a perforated chamber below. The fire may be either in this perforated chamber or within the stove on which the whole is placed.]

FINGER BAR FOR REAPING AND MOWING MACHINES J. T. Whitaker and C. D. Read, of St. Charles, III. I claim a tubular finger bar when constructed in the pecu-iar manner, and for the purposes substantially as set liar forth.

TRV SQUARES—Joel Whitney, of Winchester, Mass. : Having thus fully described the construction and opera-tion of my improvement on the try square, I will proceed to point out the parts which i claim as my invention, and desire to secure by Letters Patent.

I claim the flattened pin, working in the slot, in com-bination with the eccentric pin, arranged substantially in the manner and for the purpose described.

SMOOTHING PLANED WOODEN SURFACES-B. D. Whitney, of Winchendon, Mass. I claim the scraper, u, pivoted and operating in the manner substantially as de-scribed, in combination with a mechanism for the pur-pose of carrying the wood forward in contact with the scraper.

POLISHING STONE AND GLASS-G. H. Wood, of Green Bay, Wis. I claim the polisher, F, supported and oper-ated as above described, in combination with the adjust-able guide and gage, frame G, and the reciprocating carriage, K, when the whole is arranged to operate con-jointly as shown for the purpose specified

There are two motions to the polisher, one being an ordinary rotary movement, and the other a circular traveling motion of the axis around a center. The glass or other article to be polished is mounted on a bed which is moved with a reciprocating movement. The surface is polished very uniformly and expeditiously.]

SPRING LANCETS-J. F. Martin, of Marshall county, Va., administrator of Wm. Parkinson, deceased, of the same place: What is claimed as the invention of said Parkinson is the application and adjustment of the spring, B, being the re-action spring by which the blade is instantly drawn back, by which safety and accuracy are attained in bleeding.

SHEARING AND PUNCHING—B. F. Hooper (assignor to himself and Ransom Ballou, Jr.,) of Albany : I claim the employment of the beam, D, having an inclined slot in its extremities carrying the pins on which the punch and shears are suspended as described, and operated in the manner substantially as set forth in the specifica-tion.

MARKING TIME OF ATTENDANCE OF WORKMEN-B. F. Harris, (assignor to John McKillop) of Brooklyn, N. Y. 1 claim, first, The combination of the registering surface operated by clock work with the movable markers, when the latter are arranged as set forth. Second, The combination of the movable markers and their armsk and 1, with the indicators, u, and their concomitant parts as set forth.

Mounters Bricks-J. Z. A. Wagner, of Philadelphia, Pa., assignor to P. H. Watson, of Washington, D. C., as-signor to E. S. Renwick, of New York City: I claim in my machine for makingtubular bricks the combination of the mold box with a core, and an annular bottom or piston, the whole constructed and operating substantially as set forth.

as set forth. SEWING MACHINES-Wm. C Watson (assignor to him-self, G. H. Wooster, and J. W Gregoryl of New York City: I claim the improved device for seizing the loop, and holding and properly presenting it for the passage of the needle, consisting of a vibrating hook, b, in combina-tion with a gripper or hold fast, c. so arranged and oper-ated as alternately to close upon the loop after being engaged by the hook, to draw back the said loop, and to release the same after the passage of the needle through in the manner described.

in the manner described." TURNING SPOOLS-A. D. Waymoth, (assignor to him-solf and H. W. Page) of Fitchburg, Mass, : I claim the combination of a stamping or milling wheel with me-chanism substantially as above described, for turning a spool from a piece of wood as explained, the said wheel being arranged so as its on mill, engrave, or indent the end of a spool while said spool is being made or before it is separated from the sitck as explained. I also claim the combination of the two pitmans and lever for elevating the severing cutter, and that for car-rying the body cutter, whereby the said body and sever-ing cutters are made to operate in manner as specified, that is during one single iorward movement of the lever, L connected with the severing cutter. I also claim the tapering screw chuck constructed as specified. specified.

Taiso claim the tapering screw chuck constructed as specified.
Hor AIR FURNACES-D P. Weeks, of Boston, Mass.: assignor to himself and Eben Seavey, of Charlestown, Mass. : I do not claim the invention of a tapering discharge pipe, nor arranging a series of such around the fire pot and so as to open at their bases into the same.
Nor do I claim combining and arranging with a firepot, and so as to open at their bases into the same.
Nor do I claim combining and arranging with a firepot, and such a series of pipes a conical or tapering radiator closed at its top, and placed within the series and directly over the fire, and so as to receive the volatile products of combustion from the fuel, and deflect them outwardly buyed and into the mouths of the several discharge pipes.
Mor do I claim an annular radiator ; nor do I claim conical or fustor conicat bases or semi-cones combined with the fire pot, and its series of tapering discharge pipes, and serving to support and open into said pipes respectively, as I am aware that much, it not all of such is used in the furence of Gardner Chilson, and claimed by him in his Patent dated September 20, i854.
But I claim the combinati. n and arrangement of the parachute radiator, A, air chamber B, and pipes, F P, with the fire chamber G, and the reverberating chamber D, having smoke passages or pipes E, anplied to the same and leading into the radiator A, as described.
I also claim the manner of constructing the radiator, A, viz., with a tapering tunnel, i, an annular deflecting dome, f, and a discharge passes or pipes, E F, and a chamber for onsustantially as specifice.
Talso claim the manner of constructing the matiator discreting thermaler discreting thermaler discreting the set of the same and leading into the radiator A, set excluded to get the substantially as specifice.
Talso claim the manner of constructing the and achamber for onbustion estand by one projecti

DROP PRESS-WIM. Wilson, Jr., (assignor to Wilson, Green and Wilson, Jr.,) of Brandywine, Del.: (claim the employment of the spring, E, when so arranged with the drop, C, as to effect the delivery of the article stamped, substantially in the manner set forth.

SETING POROBLAIN TEETH-M. L. Wright, of Cleveland, O.: I do not claim the carving of full sets of teeth out of one piece of porcelain material or half sets of teeth out of the same, nor of block work to be united to a metallic base; nor the molding or modeling of por-celain matorial around porcelain teeth on a porcelain base for full sets or full half sets of teeth.

But I claim the making of parts of full sets or parts of half sets of teeth for either the upper or under jaw, where one or more teeth are good and permanent. and where one, two or more may be skipped as seen at e e e, figs 1, 2 and 3, making the whole plate and teeth of one piece of porcelain in the manner described.

### RE-ISSUES.

RIGE HULLERS-Peter McKinlay, of Charleston, S. C. Patented April 1, 1851. I claim operating the postle by having it attached to a rod passing through the bottom of the mortar, and receiving motion through a crank or its equivalent, substantially as and for the purpose and ob-ject set forth.

ject set forth. Boor CRMPS-J. M. Read, of Boston, Mass., assignee (through Abraham Thayer) of Josiah Copeland, of Weymouth, Mass. Patented January 20, 1844: I do not claim strictly the combination with a pyramidal frus-trum or block A of another piece of metal forced down upon or over it by a screw or other contrivence separate from the main straining screw, and for the purpose of confining the corners or edges of the leather between the said pieces of metal. Mord of claim the forcing of the two jaws or pieces of metal together by a screw or other contrivance separate from the main straining screw, but I claim the manner described of arranging the block, A, and clasp C, so that the turning up of the straining screw shall at the same time perform the double operation of confining the ends of the leather between the block and clasp, and of stretching the leather over the boot form, the whole being substantially as described. ADDITIONAL IMPROYEMENTS.

#### ADDITIONAL IMPROVEMENTS.

ADDITIONAL IMPROVEMENTS. HOISTING WINCHES FOR SHIP BOARD—Joel Bryant, of Brooklyn, N. Y. Patented April 7, 1857 : Therefore disclaiming the individual parts of the said winches and all other winches for hoisting hitherto known or used, aminish the number of wheels, blocks, sheaves or pulleys or to change their relative position within the legitinate scope of my invention as necessity may require or ex-expediency point out—with reservation, and without in-fringing upon any other known invention of winches. I claim the invention and u-e of winches (or compound winches) for hoisting, constructed and operating sub-tantially as described and set f.rth in the original, and in this additional description and specification of new and additional improvements in winches.

#### IMPORTANT TO INVENTORS.

INVENTORS AND PATENTEES will bear in mind that the editors of the Scientific American are conducting the most extensive American and European Patent Agency in the world. They have offices in New York, Washington, London, Paris and Brussels, through which they prosecute applications for patents upon such terms as have not failed to bring them a business in extent fai beyond that of any other agency in this country. This clearly shows the confidence reposed in them by inventors generally. They have no new or peculiar process to advertise, by which the business is to be done. They proceed according to law;, and they have found that, after an experience of nearly twelve years, no other system, however peculiar, can equal it. Inventors should never trust their business to inexperienced persons. If they wish to have their papers prepared to stand a legal test, they should be cautious to employ agents experienced in the business. Circulars of information sent free.

same naving been known and used. But I claim the combination of the receiving vessel or upper filter, the reservoir with flange or rim, and at-tachable air and draft pipes to same, substantially as described in otconfining myself to any particular mode or material which shall produce like effects and re-sults. STEAM GAGES-D. G. Wells, of New York City: I claim the use of a flattened tube when constructed and arranged in layers, substantially as described, and for the purposes set forth.