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[Reported officially for the Scientific American.]

IMPLEMENT FOR HOLDING OPEN SHOES, BAGS, &C.—John Allender, of New London, Conn.: I claim a pair of forceps with one jaw provided with a plate, for the inside of a shoe, sack, or other article, the other jaw carrying two arms, one to clampthe shoe, sack, or other article, against the first-mentioned jaw or plate upon it, and the other arm carrying a bar or plate, to spread the opening in the shoe, sack, or other article, substantially as described.

I also claim making the bar that carries the arm that spreads the shoe, sack, or other article, adjustable, substantially as described, so that the forceps or apparatus may be adapted to shoes and sacks of various sizes.

Sewing Machines—Benjamin J. Angell, of Attleborough, Mass.: I am aware that a method of causing the cloth to progress regularly, in feeding, by the joint action of the surfaces between which it is clamped, has been previously patented by Allen B. Wilson. I would not, therefore, be understood as claiming such device

not, therefore, be understood as claiming state of or this purpose.

I claim the combination of the grooves, S S, of the presser with the barbs, t t t, of the feed bar, and the surfaces, a a and h, with the thumb serve S, arranged and operating substantially and for the purpose as set forth.

Pumrs—William Boyers, of Mount Carroll, Ill.: I do not claim the employment of two pistons working in the same cylinder.

But I claim the combination of the connecting chain, h, with the lifting rods, b c, and with double pistons, G H, working in a single cylinder, A, substantially in the manner and for the purposes specified.

HYDRO-DARION VAFOR LAMPS—Robert R. Crosby, of Boston, Mass.: I do not claim applying a separate wick tube and wick to a main reservoir and its wick tube, such being for the purpose of vaporizing the fluid in the wick of the main reservoir by flame generated by combustion of any of the fluid contents of the said reservoir

bustion of any of the fluid contents of the said reservoir.

But I claim, in a hydro-carbon vapor lamp, combining an auxiliary and separate reservoir, H, with the main reservoir, A, and its main and auxiliary wick tubes, D D G, so that while a fluid rich in carbon may be used in the main reservoir, alcohol, or a fluid having less or very little carbon, may be used in the auxiliary reservoir, and be burned on the wick thereof, extending through the auxiliary wick tube.

I also claim arranging the separate auxiliary reservoir, H, of the auxiliary wick within, and separate from the main reservoir, as specified.

I do not claim applying to the auxiliary purnerchamber a closing slide to rotate on the wick tubes, D D, and regulate the amount of air to be admitted into the said chamber, for the ordinary purposes of the fiame on the wick.

But I claim the arrangement and application of a

Wick.

But I claim the arrangement and application of a flame guard, K, constructed substantially as described, to the auxiliary wick tube chamber, so as to extend and side around the upper part of said chamber, have such chamber open beneath it, and operate to spread the heat uniformly against the under side of the vaporizing vessel, E, substantially as specified.

CARDS NOE CURRYING CATTLE—C. S. Dickerman, of Lansing burgh, N. Y. I disclaim a wooden cylinder furnished with teeth, and furthermore, restrict my claim to a hand card made as described.

I claim a hand card consisting of a flat wooden stock having straight wire teeth forced into, but not through, the stock, as described, and provided with a handle, C, or its equivalent, to fit the card for hand use, as see forth.

GRINDING MILLS—H. V. Duryea, of Fulton, N. Y.: I claim, first, The method, substantially as described, of constructing metallic rollers for grinding mills, when the parts of each roller are connected by the contraction of metallic rods, as set forth.

Second, I also claim the method, substantially as described, of attaching the hopper, A, with the rollers, I and C, for the purpose mentioned.

Third, I also claim the described method of attaching hoppers, in combination with rollers, constructed as set forth.

RAILROAD CAR ANLE BONES—George W. Geisendorff, of Indianapolis, Ind., and Jacob U. Geisendorff, of Cincinnati, Ohio: We claim the lug, CD E FG, constructed as set forth, or equivalent device, in the described combination with the axle, Δ , and box, C.

LUBBIOATING APPARATUS FOR JOURNAL BOXES OF RAILROAD CARS—Jacob C. Geisendorff, of Cincinnati, Ohio: I claim the gnards, E. springs, G. ratchet wheel, H. and pawls, I I'. or substantially equivalent devices, in the described combination with the lubricating roller F, and axle, A A', for the purposes set forth.

MACHINE FOR CUTTING TENONS ON SPOKES—Mahlon Gregg, of Philadelphia, Pa.: I claim securing the cutters at an angle, substantially as and for the purpose set

forth.

I further claim the combination of cutter carrier, P, bearer, Q, and tubular piece, G, substantially as and for the purpose specified.

SHINGLE MACHINE—William Gregor, of New York City: I claim the arrangement of two slides turning upon centers, and acted upon by inclined surfaces, which latter are operated by the motion of the bed-plate, as described.

I further claim the attachment of a double-edged knife to the bed-plate, in the manner described, moving back and forth with said bed-plate, and at the same time being acted upon by the above-mentioned slides, in the manner as and for the 1-urpose set forth.

POTATO PLANTERS—Edward E. Hawley, of New Haven, Conn.: I claim, first, The combination of the planting wheel, E, with the knife or cutting blade, G, to effect the purpose named, as set forth.

Econd, The combination of the planting wheels, E, Et, with the hopper, F, when arranged in relation to

each other, in the manner and for the purposes de-

ALARM LOCKS—Horace L. Hervey, of Windsor, Conn.: I claim first, The main lock bolt, G, or its equivalent, used for the purpose as set forth and described.

Second, The sliding notch wheel, F, tor the purpose set forth and described.

Third, the slide piece, D, when used in connection with sliding spring knobs, L.

Fourth, The sluding spring knobs, L, for the purpose set forth and described.

Fifth, The sliding spring ratchet, C, when used for the purpose set forth and described.

STAVE MACHINE—Elias Moore, William Clark, and James Lindsey, of Shelbyville, Ind.: We claim the combination of pars, acting as a whole, substantially as specified, and for the purposes set forth.

Mode of Burning Brick—A. J. Mullen and R. Hall, of Greensboro', Ala.: We claim the construction of a brick kiln with an inclined bottom, a, leading to the drawing pit, when used in combination with the irregular setting of the brick in the kiln, as set forth.

MUSICAL INSTRUMENTS—Ureli C. Hill, of Jersey City, N. J., and Charles F. Hill, of New York City: We do not claim the cells as agents, in conjunction with forks, to produce a musical instrument; nor forms normodes of constructing cells. But we claim, first, The wing and hammer wire to fork prongs, as used in this instrument.

Second, The placing of keys, action, and cells in lateral or oblique ranges, the cells and keys crossing each other at right angles, and the manner of suspending cells.

Third, The yoke, and method of holding the fork to thecell.

the cell. Fourth, The arrangements of dampers and damper levers to the keys and forks, so as to damp the forks on their edges. Fifth, The transverse upright action for the movement of hammers across, instead of parallel with, the keys, all substantially as shown and described.

HOMINY MILLS—Phillip Homrighaus, of Royalton, Ohio: I claim the construction of the gage plate, M, when used in connection with the hopper, L, and trough, K, substantially as and for the purposes set forth.

HARVESTEES—M. G. Hubbard, of Penn Yan, N. Y.: I claim the attachment of the spring directly to the finger bar, and placing the shoe on one side thereof, and directly in the track of the supporting wheel, as specifically set forth.

STRAINING RECIPROCATING SAWS-G. P.

STRAINING RECIPROCATING SAWS—G. P. Ketchan, Jr., of Bloomington, Ind.: I do not claim, broadly and separately, connecting a saw at both ends to crank pulleys.

But I claim connecting the slides, c c, at both ends of the saw to crank pulleys, a a, on the shafts, B C, by means of pitman, b, the opposite ends of the shafts, B C, being connected by the crank or cranks, E, and pitman or pitmen, F, whereby the shafts are made to move simultaneously, and the same relative positions of their cranks and working parts connected therewith, retained at all points of their movement, and the saw, D, operated or driven, and kept equally strained, or at the same degree of tension, at all points of its stroke, substantially as described.

[For a further description of this, see another column.]

REMOVABLE WINDOW SABH—Robert H. Kirck, of Utica, N. Y.: I claim jointing the sash or sashes of a window at the center, substantially as described, so that they may be removed from the casing without detaching the parting beads or stop strips, the sash or sashes being provided with a catch, or any equivalent device, to prevent the casual folding of the same.

['The object of this invention is to admit of the sashes of windows being removed from their frame or casing without detaching the stop strips or parting beads; this is effected by the employment of a sash, divided and hinged in the center, and also provided with a catch, so that it cannot come out by accident, but can only be removed by a person who releases the catch.]

SCRAFERS FOR GRINDING MILLS—Thomas E. Little, of Janesville, Wis.: I claim the employment of the rotating head, b, having rods, e, and scrapers, f attached, said parts being arranged to revolve slowly around the runner, at whatever speed the latter may be driven, substantially as, and for the purposes set forth.

[For description of this invention, refer to another page.]

FLOUR BOLTS—Samuel G. McMurtry, of Memphis Tenn. : I am aware that fans have been previously ap-plied to buls to effect the purpose described, and I do not, therefore, claim the employment or use of the fan, in the foundation not, therefore, claim the employment or use of the fan, in itself considered.

Nor do I claim the employment or use of the rotating beaters or brushes within the bolt, for they have been

beaters or brushes within the bolt, for they have been previously used.

But I claim the arrangement of the bolt frame, b, bottom plate, r, flanches, I l, plates, c d e, and spouts, E F G H, substantially as described, whereby the current of air is prevented from drawing through the current of the bolt, but is spread so as to pass along near the surface of the bolting-cloth, while the flour is not only suspended in a current of dry air, but is conducted through the cloth out upon the annular plates, and down the peculiarly-arranged air-tight spouts to the place of storing, nothing whatever being able to escape, except through the proper channel.

[For further information concerning this invention, see another page.]

OPERATING RAILBOAD STATION PUMPE—William Mc-Veigh, of Boone, Ill.: I claim the combination of the roller, I, the inclines, C C', the levers, D D', the lever, J, and pump, H, arranged as described, for the purpose set forth.

ATTAGUING INDIA RUBBER SOLES TO BOOTS AND SHOES—Abram T. Merwin, of New Haven, Conn.: I claim securing a sole of india rubber, gutta percha, or other like material, to a shoe, by means of a binder, as shown and described.

MANUFACTURE OF WEOUGHT IRON RAILROAD CHAIRS
—James Milliken, of Philadelphia, Pa.: I claim the
manufacture of railroad chairs by forming a pile of the
side pieces b and b', in connection with the pieces, a
and d, in the manner and substantially as described.

CLAMF FOR HOLDING RECTANGULAR PIECES OF WOOD WILLE BRING BORED, &c.—Henry Miller, of Grafton, Va.: I claim the described apparatus for adjusting, holding and clamping bed-posts, whilst their previously-bored holes are having the screw threads cut therein, as explained and set forth.

explained and set forth.

Churn.—Enos Page, of Streetsborough, Ohio: I do not claim the simple use of spiral dashers, arranged so as to force the cream al crnately in opposite directions, being aware that such is now new.

But I claim the arrangement of the spiral wing dashers, E E', on opposite side and ends of the dasher shatt, in combination with a cylindrical churn body in such a manner that the outer radial edges, d d, thereof, shall respectively sweep, or move in close proximity to, shall respectively sweep, or move in close proximity to, shall respectively sweep, or move in close proximity to the ends of the churn body, and their spiral edges, e 'e' e', sweep respectively one-half the length of the peri-phery of the churn body, substantially in the manner and for the purpese specified.

MACHINES FOR CUTTING BRUSH FROM COTTON FIELDS
—Elias Peck, of Canton, Ill.: I claim the arrangement
of wheels, S, knives, b, cams, E, and bar, F, the whole
being arranged and operated in the manner and forthe
purpose set forth.

PEDALS FOR OBGANS, &c.—Thomas Robjohn, of New York City: I claim the described arrangement of organ pedals in the radial and concave form, to facilitate the performance thereon, as set forth.

LEAD PIPE MAGININE—Charles E. Rockwell, of New York City: I do not claim, broadly, the making of the die-plate of greater diameter than the bore of the cylin-der, for I am aware that this is seen in Kerh & Krenz-nach's plan, Voight's Technological Journal. But in this device the die-plate, although larger than the bore of the cylinder, is not adjustable in a lateral manner, or

by set screws.

Eut I claim having the space between the adjustable

dic-plate, e, and the base-plate, m, covered or protected by the end of the lead cylinder, the whole constructed as and for the purposes set forth.

JOINTS FOR SHEET METAL ROOFS—Stephen Scotton, of Richmond, Ind.: I claim forming a three-leaved metal plate, shaped thus, T, by soldering or rolling iron, or other metal, for securing the joints of metal roofs, substantially as set forth.

roofs, substantially as set forth.

WASHING MACHINE--W. H. Tambling, of Berlin, Wis: I do not claim the employment or use of corrugated and plain cylinders or rollers in washing machines, for they have been previously used.

Neither do I claim placing said rollers in elastic or yielding bearings, irrespective of the arrangement shown, whereby the bearings of the cylinder, B, may be rendered either elastic or permanent, as desired.

But I claim the combination of the corrugated or futed cylinder, B, and elastic or yielding frame, C, provided with rollers, I, when the bearings, c, of the axis, a, of the cylinder, B, are fitted in an elastic or yielding and adjustable frame, and the whole arranged as shown, for the purpose set forth.

[This washing machine consists of an elastic frame,

This washing machine consists of an elastic frame. and a corrugated or fluted rotating cylinder, which work together. A full description, with an engraving will probably appear in a future number of the Sci. Am.

Will probably appear in a future number of the Sci. Am. Paintrisg and Varnishing Machine—H. Thayer and L. L. Martin, of Warsaw, N. Y.: We claim the mode of flowing paint, size, varnish, or any liquid substance, on artices of wood or iron, by passing them horizontally, or otherwise, through holes cut in two sides of any vessel, while said vessel is filled with the liquid substance, to be used as represented, said holes to be cut directly opposite each other, and to be appropriately packed with flannel, fulled cloth, or any other appropriate packing, as described by the letters, X. X., and figure, II, and to correspond in shape with the articles to be run through, as set forth.

We also claim the funnel-shaped india rubber tube, with its paking, as represented, and its application to

with its packing, as represented, and its application to painting, sizing, and varnishing articles that diminish in size from one end to the other, or that vary in diame-

ter. Also claim the hollow brush, k, standing on the further side of the chamber from the operator, and its adaptation, as described.

COLLATSIBLE BOATS—N. Thompson, of Brooklyn, N. Y. Patented in England December 3, 1857: I claim a sectional, collapsible boat, made up of eight or more sections hinged together, and constituting a boat similar in appearance to an ordinary small boat, the whole constructed substantially in the manner described.

LAP-JOINTS FOR BELTING—Henry Underwood, of New York City: I claim the straps, b, placed on the rivets, a a', which laps through the outer and inner ends of the laps, or "skived" portion of the parts or ends, A B, of the belt, as shown, so that the straps may project over the outer thin ends of the laps, substantially as and for the purpose as set forth.

[This invention is designed to prevent the ruffling or turning up of the outer ends of the laps, which is generally caused by the friction produced as the jointpasses over pulleys, chains, &c., and also to prevent the cutting of the outer ends of of the laps by the heads of the rivets, in case the cement loses its adhesive property or gives way, and the connection there by is thrown entirely on the rivets.]

Grain and Grass Harvestees—Aaron VanDuzen, of Goshen, N. Y.: I claim the arrangement of cutters and fingers upon both sides of their respective bars, whereby the grass may be cut upon either side of the finger bar, A, as and for the purposes set forth.

This is a new and improved cutting device for har vesters, consisting in having a series of cutters attached to a bar, the ends of which are pivoted to pulleys, having a chain or belt passing around them. The pulleys are fitted into recesses in the finger-bar and the cutters owing to the peculiar movement of the bar, which is actuated by the pulleys, work with a curvilinear motion through the slotted fingers and the stationary cutters fixed to the fingers. The object of the invention is to provide a cutting device that will work with a small expenditure of power, and one that is not liable to become choked or clogged, and that may be driven with an easy motion without any jarring or vibration of the

CORN HUSKERS—F. M. Walker, of Greensboro', N. C.: I claim the cone, H, armed with the spring teeth. J.I. in combination with the guide bars, L. L. and upright piece, F, the whole being constructed, operated and arranged in the manner and for the purpose set forth.

PLOWS—George Watt, of Richmond, Va.: I do not claim of itself the inclination of the land side towards the mold-board, for the purpose of leaving soil over-hanging the furrow, as such device broadly considered

But I claim constructing mold-board and land side of cylindrical surfaces of equal diameters, intersecting along the cutting edge of the plow, in combination with the curved standard, S, the whole being constructed substantially as and for the purposes set forth.

MACHINES FOR PLANTING POTATORS—T. B. Whyte, of Greenwich, N. Y.: Iclaim the arrangement of slide, E., knife, e., and adjustable hoard, V., with hoppers, L. and L. 2. in manner and form and for the purpose set forth.

BOTTLE STOPPLE—J. B. Williams, of New York City; I am aware that a ball valve is not new, and I lay no claim to it in its general application.

But I claim a bottle stopper composed of a metal tube having proper flanges, one end of which is covered with cork, and its top furnished with a ball valve, which moves between guides attached to the tube or its flange, the whole being made as set forth.

Corron Gins—L. J. Chichester (assignor to H. G. Evans, Saul. Barstow, and D. L. Winteringham), of New York City: I do not claim broadly the employment or use of grooved rollers in themselves considered, without reference to their application to cotton gins, forgrooved rollers are used in sheet metal working devices, crushing machines and various other machines for different purposes.

For different purposes, But I claim the rollers, A B, grooved circumferentially as shown, and having the peripheries of their flanches, b, smooth or servated; the rollers being fitted together with or without the elastic wings, e, substantially as and for the purpose set forth.

[Full particulars of this invention will be found in another column.]

CORN HUSKERS—A. R. Davis (assignor to himself and B. D. Moody), of East Cambridge, Mass. : I claim, in combination with the stationary gaurds, H and F, cone C, and knife, E, the elastic or spring rests, e, operating substantially as described.

CORN HUSKERS-Daniel Lombard (assignor to himself and G. P. Richardson), of Boston, Mass. : I claim a corn husker, constructed of a chuck mounted on a tu-bular shaft or provided with a central cavity, and hav-ing cutters and spurs arranged with respect to the bore or cavity, substantially as specified.

FIRE-ARMS—F. D. Newbury (assignor to Richd. V. Dewitt, Jr.), of Albany, N. Y.: I claim the main spring, S, arranged as described to operate the hammer and trigger simultaneously where the hammer is cocked by the trigger.

I further claim the ratchet wheel lever and pin, in combination, arranged as described, so as to revolve the cylinder, and to hold it firmly in the act of firing.

I further claim the combination of the main spring, trigger, ratchet wheel, lever, and pin, for the purpose of cocking the piece, revolving the syllnder, holding it in place, and firing the piece, by one movement of the finger upon the trigger, substantially as set forth in the specification.

specification.

Cane Gun—John F. Thomas (assignor to himself and Saml. Remington), of Ilion, N. Y.: I claim, first, Connecting the case, A, and barrel, B, by means of the hammer and its rod, F, and the trigger block, and trigger, as set forth.

I also claim, in combination with the case and barrel, the catch spring, e, for holding the case and hammer, when the arm is cocked as set forth.

I also claim the continuous growes or shoulder around the end of the rod, F, so that said rod may turn in its bearings, without preventing the sear from catchit, whenever drawn back past it, as described.

I also claim the combination of the trigger block, G, trigger, i, with its sear 3, and spring 4, and the hammer and its rod, substantially in the manner and for the purpose set forth.

HAND CREM PLANTERS—Joshua Fairbank and E. C.

HAND CORN PLANTERS—Joshua Fairbank and E. C. Durfee, of Leon, N. Y., administrators of the estate of J. B. Fairbank, deceased, late of New York City: The particular improvements which constitute the said invention, and which are claimed as having been originally and first invented by the said John R. Fairbank, arey

are—st. The adjustable measuring cups. B, with a movable bottom operated by the upward motion of the cups relatively to other parts, as specified.

Second, The thruster, S, and slide, V, or their equivalents, when used for giving the slde pressure to the corn, in the manner and for the purposes above stated.

HYDRANTS—Kingston Goddard, of Philadelphia, Pa.: I do not wish to be understood as claiming, broadly, the use of a plunger, or the construction of a self-closing valve.

use of a plunger, or the construction of a self-closing valve.

But I claim, first, The plunger, B, operated upon by a weighted handle, in combination with the self-closing spring valve, C, the whole constructed and operating, substantially as and for the purpose specified.

Second, The construction of the shell, A, in two sections, in combination with the removable valve seat piece, D, and bottom piece, e, the several parts arranged and operating substantially as described, for the purposes set forth.

RE-ISSUES.

SOTHE FASTENINGS—Pinckney Frost, of Springfield, Vt. Patented Jan. 11, 1853—Re-issued Feb. 9, 1858: I claim the combination of the loop-bolt and set ring, constructed and operating substantially in the manner described and set forth.

CORN PRANTERS—Martin Robbins, of Cincinnati, O. Patented Feb. 10, 1857—Re-issued Feb. 9, 1858: 1 claim first, The method set forth of discharging seed from a plow or drill by means of the anchored chain, i, j, k, or its convisalent

nrst, The method set forth of discharging seed from a plow or drill by means of the anchored chain, i, j, k, or its equivalent.

Second, The chain or cord, i, j, k, adapted substantially as set forth to operate the discharging mechanism of a seed planter.

Third, In the described combination with a suitable chain, or cord, I claim the arm, f, provided with a vibrating claw, or tappet, g, or substantially equivalent devices operating the seed delivering mechanism as set forth.

Emigration to the United States and British North America.

From returns furnished by the Government Emigration Office, we learn that in the March quarter of the year 1857, 53 slups, of an aggregate tunnage of 73,360 tuns, left Liverpool for the United States, carrying 273 cabin and 16,453 steerage passengers; in the June quarter, 90 ships, of 126,517 tuns, with 632 cabin and 45,311 steerage passengers; in the September quarter, 52 ships of 75,325 tuns, with 828 cabin and 53,111 steerage passengers; and in the last quarter, 37 ships, of 53,033 tuns, with 376 cabin and 10,611 steerage passengers-making an aggregate for the year of 232 ships, 328,235 tuns, conveying 2,108 cabin and 95,486 steerage passengers. To Canada direct, in the June quarter, 12 ships, of 12,211 tuns, with 6 cabin and 4,818 steerage passengers; and in the September quarter, 3 ships, of 2,990 tuns, with 6 cabin and 1,083 steerage passengers-making a total to Canada of 15 ships, 15,201 tuns, carrying 12 cabin and 5,901 steerage passengers. To New Brunswick, 1 ship, of 966 tuns, was dispatched in the June quarter, with 7 cabin and 70 steerage passengers .- Ex-

Russia made to Pay up.

From the Baltimore Patriot we learn that Thomas Winans, of that city, has recovered a claim of five million dollars against the Russian government, which makes his share of the proceeds of freight and passenger travel over the railroads of that country, seventeen millions of dollars! It seems that in his contract with Russia, he was to receive a percentage on all freight and passenger travel on the railroads of that country, and the government thought that there was no necessity to pay this tax on the soldiers who were carried to the Crimea during the late war. Mr. Winans thought differently, and employed J. H. B. Latrobe to prosecute his claim in a legal way, which he has done, and succeeded. We understand that Mr. Latrobe received a fee of \$10,000 a month, independent of expenses, and when he reached Baltimore he was presented with a check for \$100,000. Mr. Winans has purchased a tract of land with water front at Canton, where, it is said, he is going to build a number of magnificent vessels of war for the Russian government, having just made a contract with them for the work.

