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will keep the lips closed. But should sticks or other obstructions be drawn into the wheel and be brought in contact with lip E, it will be thrown open and the obstruction will pass by, thus preventing injury to the curb or to the buckets of the wheel.

This improvement also enables the extremity of lip, D, to be brought much closer to the extremities of the buckets of the water wheel than it would be safe to do if it were a solid portion of the curb, which causes the water to act with greater efficiency upon the wheel.

We have seen testimonials from a number of persons who now have these wheels in use, and they all speak of the invention in the highest terms of commendation. Its extreme simplicity, portability, and ease of management will insure for it a very general use. It runs with great steadiness, is easily regulated, is adapted to high or low heads, runs in back water, is not liable to freeze up, has but little friction, only a short time and but little expense is requisite to put them in. Price \$35 up, according to size. For further information apply at the Palace, or address the inventor as above. Patented July 8, 1856.

IMPORTANT NOTICE.

When an individual has made an invention, the first inquiry that naturally suggests itself is, " Can I obtain a Patent ?" A positive answer to such questions is only to be had by presenting a formal application for a paten to the government, embracing a petition, specification model, duplicate drawings, and the payment of the regular official fees. Aside from these steps, all that the inventor can do is, to submit his plans to persons expe rienced in the business of obtaining patents, and solicit their opinions. If they are honorable men, he may confide to them his ideas with perfect safety, and they will inform him whether or not they regard his invention as patentable

Those who wish to consult with ourselves on such matters, are at liberty so do so, either in person, at our office, or by correspondence through the mails. For such consultations we make no charge. We shall be happy, at all times, to examine inventions, and will give conscien tious opinions as to their patentability.

Pen and ink sketches of the improvement, and a writ ten description of the same, should be sent. Write plain do not use pencil or pale ink ; be brief. Remember that all business committed to our care, and all consultation are kept by us secret and strictly confidential.

Parties writing to apply for patents are informed [tha they can have the necessary drawings and document promptly prepared at this office, on the most reasonable terms. It is not necessary for them to go to the expense of a journey in order to be personally present. All the required business can be just as well arranged by corres. pondence. Models should be sent by Express.

We have been engaged in the business of procuring patents for years, and have probably had more experienc than any other firm in the country, owing to the fact that the amount of business done by us equals, if it does o exceed, that of all other professional patent agents in the United States combined. A large proportion of all the patents annually granted by the American gov. ernment, are prepared and conducted by our firm .-We have in constant employment an able corps of exam. iners and draughtsmen, whose duties are so systematical ly arranged, under our own personal supervision, that every case committed to our care, receives the most care ful study and attention, and the most prompt dispatch. In every instance we endeavor so to draw up the claims and prepare the whole case, that the patent, if granted will stand the test of the courts, and be of value to the owner. Our patents are scattered all over the country, and in this respect they speak for themselves.

In addition to the advantages which the long expa rience, great success, promptness and moderate charges of our firm, in obtaining patents, present to inventors they are informed that all inventions patented through our establishment. are noticed editorially, at the proper time, in the SCIENTIFIC AMERICAN, without charge This we are enabled to do from the fact that, by prepa ring the case, we become familiar with its peculiarities Our paper is read by not less than 75.000 persons every week, and has a wide-spread and substantial influence Inventors, we believe, will generally promote their own interests by confiding their patent business to our

MUNN & CO.,

128 Fulton street, New York.

A suspension bridge is to be built from Cinnn ati to Covington, sixty feet in hight.

care

Address

No less than 836,850 pounds of quicksilver were exported from California during the last six months ending July 1st.



[Reported Officially for the Scientific American.] LIST OF PATENT CLAIMS Issued from the United States Patent Office FOR THE WEEK ENDING OCTOBER 30, 1856.

RING BOLT FOR SHIP'S AND BOAT'S TACKLE-Hub-bard Bigelow and Mortimer M. Camp. of New Haven, Conn. We do not claim an eye or ring bolt made in parts, that can be secured to or released from each other. other. But we claim the tongue, C, the holdfast, D, and the levers, E E, as arranged in relation to the body, A, in the manner and for the purposes set forth.

Son a Fouw rarss. J. F. Boynton, of Syracuse, N. Y. . I claim first, the described arrangement of the plunger, E, and vessel, D, or any othor arrangement substantial-ly equivalent thereto, where by the acid may be measured and delivered to the other ingredients in determinate quantities, as set forth. Second, the spring drip valve, b, or its equivalent, whereby the vessel, D. is entirely emptied of acid after a charge is worked off, as set forth.

a charge is worked oil, as set forth. UNCOUPLING R. R. CARS-WM. O. George, of Rich-mond, Va.: I claim the arrangement of sliding rods run-ning longitudinally beneath the platforms of railroad cars, so connected with the coupling pins of the different cars that they may be simultaneously detached from each other by simple contact of the sliding rods at the same time that the engineer or conductor is enabled to disconnect one or more of the cars, if desired, substan-tially in the manner set forth.

VEGETABLE CUTTERS-George W. Childs, of Liberty, Pa.: I claim the vibrating cross knives, h h, operating in the manner set forth.

SMUT MILLS—Joel W. Cormack, of Quincy, Ill. : I o not claim creepers, or flanges, or cones, in themselves,

as new. But I claim the combination of the cones, E, and creep-ers, cc, arranged and operating in connection with the flanged rims, J J J J, attached to the cones, H and M, in the manner and for the purpose set forth and described.

The set of the set

Chines. Therefore I do not canne them as my inter-tion. But I claim arranging a single series of endless belts, substantially as described, so that paper or other substan-ces may be conducted by them horizontally from a pair of rollers when passing downwards between them. Bighth, I claim gearing the rollers in such manner as to decrease the speed of the periphery of each successive pair, in the proportion and for the purpose specified. Ninth, I claim controlling the first blade or plate of folding machines by a treddle or other means, for the purpose specified.

Hose Coupling—Lewis M. Ferry, (assignor to J. T Ames), of Chicopee, Mass.: I do not claim any of the parts separately But I claim the combination and the application of the various devices described, for the purpose of coupling fremen's hose.

charging the mortar from the revolving box. FLT TRAP-George Gilbert, of Westville, Conn.: I disclaim the use of floats, ledges, or any other projections on the surface of the cylinder. I also disclaim the use of a movable cleaner or wiper of any description whatever to remove the flies from the surface of the cylinder, or to force them into the box or any other receptacle, as neither projections nor cleaners are needed or used in my manner of constructing and using the fly trap I claim the combination of the revolving cylinder with the screens or wire work, when the whole is constructed, arranged, and combined substantially as described.

ATTACHING SCTTHES TO STATIS-David A. Good. now, of Baldwinville, Mass. 1 claim the screw, D, and dog, E, in combination with the projection, C, the whole being arranged in the manner and for the purpose de-scribed.

HARVESTERS-William Dripps. of Coatesville, Pa.: I claim giving to the cutters of a harvesting machine a traveling and a rotating motion, at the same time and by meanssubstantially such as described.

HIDE FRAMES IN TAN VATS-Elias A. Eliason, Georgetown, D. C.: I am well aware that hides have been immersed in quantities statched to frames, or wheels, or cords, in a horizontal position, and kept out of contact with each other, but in no instance have those several devices been connected to each other, in such manner as to form a frame or false vat by which the whole could be simultaneously immersed in or withdrawn from the liquor vat. I claim, first, arranging a series of reasons of the late in a factor.

I claim, first, arranging a series of ranges of horizontal slats in a false vat or frame upon which the hides are slats in a false vat or frame upon which the hiles are placed one upon every range, whereby the whole may be simultaneously raised out of the liquor vat (without pumping off the liquor,) substantially as and for the purpumping on the Iquors, substantially as and for the pur-poses described. Second, I claim the axial cross ties, D D, when con-nected with the frame C, in combination with the hook. edrods, F F, and shaft, e, whereby the frame or false vat may be revolved or reversed for the purposes de-scribed.

BUOYS-William M. Ellis, of Washington, D. C.: I claim, first, the method described of moving buoys, bea-cons, and floating bodies, by having their cables attached to said bodies in the line of their calculated center of ideal presents.

consider the method of connecting the forked or ∇ link or shackle to the method of connecting the forked or ∇ link or shackle to the said buoy or floating body by means of a trunnion bolt passing through a metallic tube or pipe properly set and secured within the said body.

ELASTIC PLATE PADDLES FOR STEAM VESSELS-Auguste Jouan, of San Francisco, Cal. : I claim the se-ries of vertically divided elastic plate paddles, arranged as set forth.

Scientific American.

BENDING Woon-Edwin, Artemas, and Cheney Kil-burn, of Burlington, Vt. . We claim the bending of wood by forcing it endwise of its fibers into a mold, which is closed on all its sides, but has an open end, is curved lon-gitudinally in therequired form, and has the dimensions of its internal transverse section of the piece of wood, thus causing the wood to be confined in a lateral direction during the bending process, for the purpose of preventing the separation of the fibers, as described.

FEEDING PULP TO PAPER MAKING MACHINES-rael Kinsey, of Hohokus, N. J.: I claim regulating Israel Kinser four TO FAPER MAKING MACHINES-lisrael Kinser, of Hohokus, N. J.: I claim regulating the flow of pulp for making paper upon the web or cylinder of the paper machine by the pressure of the pulp in a box, A, receiving its supply of pulp from the stuff chest, E, through the aperture, f, in the trunk, R, and discharging it through an adjustable aperture, p, be-low the surface of the pulp in the box, A, the pressure being regulated and kept uniform by the hight of the pulp, h, in the box, A, which is adjusted and maintained by means of a valve, e, fitting the aperture, f, operated by a float, B, substantially as described, the combination of the several parts forming a self-acting regulator, for the purpose of making paper of equal thickness.

MEASURING FLUIDS WHILE DRAWING-Saml. Krau-ser, of Reading, Pa.: I claim severing or separating a given quantity of liquid from a mass or column by a travel-ing tube and plunger, operating together substantially as at forch rth

quantity to be drawn, substantially as specified. PLATE-HOLDER FOR PHOTOGRAPHIC CAMERAS-Wm. Lewis, and William H. Lewis, (assignors to Malonzo J. Drummond), of New York City. We claim forming the glass or vitrified corners, h, with a flanch or rim in ne solid piece, the said flanch or rim taking the edges of the photographic glass, or other plate, substantially as and for the purposed specified, and irrespective of the manner in which the said vitrified corners are attached to the frame. We als claim the receptacle, d, below the glass or other plate to catch any drippings from said plate, substantial-ly as specified.

HARVESTERS-Israel S. Love, of Beloit, W is.: I claim the use of the movable rolling guides placed between the cutting blades, and the sill of the harvesters, whether they be used with a sill made entirely of metal or partly of wood, with more or less metal attached to the same.

CLEANING WOOL-A. W. Putnam, of Brooklyn, N. Y. I claim the combination of the main picker cylinder, and the open and closed concave, in combination with the burring cylinder, arranged and operating substantial-ly as described. I also claim the burring cylinder in combination with the adjustable burring bar or bars, arranged and operating substantially as described, for stripping the burrs and other foreign substances on the fibers as described.

SASH LOCK—Owen Redmond, of Rochester, N. Y. : 1 claim the swinging bolt, B, in combination with the slide, S, and case, O, constructed, arranged, and operating as described, so that the gravity of the slide, shallshoot the bolt, and maintain it in position.

GLASS OR EARTHEN TRUSS PADS-C. C. Reinhardt of Baltimore Md.: I claim the attachment of metallic backs to the glass faces of truss pads by a flange around the edge of the back slipping within the rim, constituting the edge of the glass face piece, substantially as and for the purposesspecified.

CUTTING IRREGULAR FORMS—Charles Spofford, of Amesbury, Mass. : I do not claim the invention of a rota-ry cutter cylinder. Nor do I claim combining knives in any manner with a rotary cutter head or frame to hold said knives so that said head or any part of it may serve as a guide to the form or pattern carrying a material to be dressed. I claim the combination of one rotary cutter, two guide heads, B and C, and two tables, G H, arranged as de-servibed

A chain the combination of the source of the vibratory spring press-raise claim the combination of a vibratory spring press-er, I, with a rotary cutter stock, A, and two tables, G H, the said presser being made to operate with respect to the cutter stock and tables, and either guide, B C, as speci-fied. I also claim the combination of mechanism for moving the vibratory spring presser and its spring lowards either of the tables, and locking the shaft to the spring, the same consisting of the arm. M, the two turning bearers, R S, and the treadle or lever, N, connected to the bearers by pitmans, O P, as described. And in combination with the mechanism for moving the vibratory presser, and its spring towards either of the tables and locking the shaft to the spring. I claim the auxiliarytreddle. T, applied to the main tred claim da sup-ported by a swinging bar, substantially as explained. Furvisurg G As P the Furry sea. (C walworth of

ported by a swinging our, substituting as explained. Frementing Gas Pipe Firring Ga-C. C. Walworth, of Boston, Mass. I claim the arrangement and combination of the machines operating substantially as described, in a plane around a common center, for the purpose of screwing or tapping different ends of gas pipe fittings at additional commentions, or their equivalers of wrist plate and addited commentions, or their equivalers for the pur-site of them to advance or recede without interfering with the others.

either of them to advance or recede without interfering with the others.
NUT MACHINES-W. E. Ward, of Port Chester, Y. Y. I do not wish to be understood as limiting my claim of invention to the special form, construction, or arrangement of the several parts, as the same mode of operation may be obtained by the substitution of equivalents.
I claim the two punches arranged side by side, and operated substantially as described, for punching the central hole, cutting off the blanks from the bar, and discharging the same, substantially as described, in combination with the two holes or two dies, so that a hole is punched in the bar for another nut, during the continued motion of the punch to discharge the nut which was cut off during previous part of the same motion.
I also claim, in combination with the punching and cutting operation or either, and with the mandrel, or its equivalent for entering the central hole of the nut blank. He employment of the spring jaws or the equivalent thereof, for transferring the nut blank from the die to the mandrel, and there holding of the nut blanks on the mandrel, in combination with the swages for swaging the faces of the nuts, substantially as described.
I also claim in mobination with the mandrel for holding and the nut blanks, substantially as described.
I also claim the bolding of the nut blanks on the mandrel, in combination with the swages for swaging the faces of the nuts, substantially as described.
I also claim the blanks ubstantially as described.
I also claim the bolding of the nut blanks on the mandrel for holding and the substantially as described.
I also claim the blanks ubstantially as described.
I also claim the blanks ubstantially as described.
I also claim the blank until blank form the directions, and a good fine hut blanks.
I substantially as described.
I also claim the combination of the swages for swaging the faces of the nuts, substantially a

arrangement of two vises so as to revolve about a com-mon center, and locking the same in any desired position by means of the lever. G, and notches, or any other suita-ble device, substantially in the manner and for the pur-pose set forth. VISE-C. C. Walworth, of Boston, Mass. : I claim the

BRICK MACHINES-G. J. Washburn and E. H. Bel-lows, of Worcester, Mass.-We claim the combination of the balanced arm, L, with the weighted reciprocating plunger, i, operating in the manner and for the purpose substantially as set forth. Second, we claim the means by which the plurger is locked with, and disconnected from the cylinder, D, con

sisting essentially of the pins, f and g, and the arms, o, operating in the manner substantially as described.

operating in the manner substantially as described. CUTTING ROUND FILE-M. D. Whipple, of Charles-town, Mass., assignor to A. B. Ely, of Newton, Mass. : I claim operating upon the blank immediately beyond its is point of support, in the manner and for the purpose sub-stantially as described. Second, I claim feeding the blank forward and rotating it u on its axis as the cutting proceeds, when it is opera-ted upon by the vibrating cutters, in the mannersubstan-tially as set forth. Third, I claim feed of the blank beyings, A2 and Z. whereby the force of the blow is diminished as the size of the blank decreases, as set forth. Fourth, I claim forming the cutters of circular disks or of portionsthereoi, in the manner and for the purpose substantially as set forth.

BRACKET FOR DOOR SPRINGS—A. J. Walker, of New York City : I do not claim the application of steel rods to doors to act as springs. I claim constructing one of brackets, used for attaching such rods, with an additional hole for receiving and hold-ing them when in operation, said addit onal hole bearing such a relation to the first that by changing the spring from one to the other, greater nicety can be observed when applying it, in regulating the power with which it shall act, and of attaching to said bracket a lever to as-sist in twisting the spring when applying it. I also claim securingsaid bracket in its place by means of a socket inserted in the door or casing, or any other means substantially the same, that will instantly secure it, after it has been applied to the spring, and the neces-sary power obtained, and will also allow of its being easily removed and re-attached when it is desirable.

easily removed and re-attached when it is desirable. HOOP MACHINE-W.B. Wood, of Flichburgh, Mass.: I do not claim splitting hoop poles by forcingthem against the edge of r stationary knife. Nor do I claim shaving them by means of revolving cutters. Neither do I claim any of the individual devices employed, nor their com-binations. But I claim the peculiar arrangement of the several parts of the described machine, operating in the manner specified, for the purpose of splitting the poles and shav-ing the hoops at one operation, as set forth.

PINCERS FOR LASTING BOOTS AND SHOES-Benj. F. Sturtevant of Skowhegan, Me., assignor to E. Townsend, of Boston, Mass. 1 do not claim a lasting tool in which the two sets of jaws are brought together by means of a screw, as this is a well known method of constructing such tools screw, as this is a well known method of constructing such tools. I am also aware that the exterior jaws of such tools have been caused to close upon a central step or block, thus forming a species of compound pincers or lasting to but I close to the second sec

But I claim the described instrument for lasting boots constructed and operating in the manner substantially as set forth.

set forth. MILL STONE DRESS-W. P. Coleman, of New Or-leans, La. I do not claim a circle dress or curved fur-rows, the radii of which are equal to the radius of the stone or thereabouts, nor yet the straight tangential fur-rows, of themselves or apartfrom their relative arrange-ment, combination, and operation together in the two stones. Meither do I claim of itself the curved furrows arch-in the grain towards the eye. Eut I claim forming the master and subordinate fur-rows, C D. of the stones, substantially as described, viz., the straight portions of the furrows being tangential with the eye, and with circles concentric therewith, and the curved portion being segments of a circle of equal curva-ture, or thereabouts, so that of the outer peripheries of the utereabouts, so that of the furrows, and retard-ing or gathering it in by the after or outer portions there-of, as set forth. COLLED SPRING FOR R.R. CARS-Carlos French, of

COILED SPRING FOR R.R. CARS-Carlos French, of Seymour, Conn.: I claim composing the coiled leaf of two or more leavesplaced the one below the other, said component leaves being welded together at one or both ends thereof, substantially as set forth.

RE-ISSUES.

BE-ISSUES. BURNING WER FUEL-Moses Thompson, of New Or-leans. La. Patented April 10.1855. I do not claim the described arrangement of a series of fire chambers to communicate with one common flue irrespective of the purpose for which, and the manner in which I employ the said arrangement. But I claim the combustion for the purposes of a high degree of heat of bagasse, refuse tan green wood. by the employment of a series of fire chambers arranged in any manner substantially as described, to communicate with one common flue or mixing chamber, when any number of said chambers are nearly closed to the admission of air when first charged, as described, whils the remaining chamber or chambers, is in full communication with the flue, and has a free supply of air admitted, and the as pit of each chamber, in its turn, is nearly closed and then opened, and has a ir admitted, where by the heat required the fuel in some of the chambers is being heated and de-composed to a desirable degree, as set forth. BURT FOR POLIMENTS

BUFF FOR POLISHING SPOONS-Luther Boardman. of East Haddam, Conn. Patented Dec. 15, 1843: I claim a cylindrical buff composed of soft leather disks or rings, when the outer portions of said disks are left perfectly free from each other, so as to admit of the yielding ne-cessary to their proper action, substantially as described.

cessary to their proper action, substantially as described. HAT BODIES-Chas. St. John, H. A. Burr, Albert H Wright, and J. M. Riblet, of New York City, assignees of H. A. Wells, deceased. Patented April 25, 1846 We do not wish to be understood as limiting the claim to such mode of application, as other modes may be devised, operating on the same principle, or having the same mode of operation, and only differing therefrom in the substitution of equivalent means. We claim forming the bat of fur fibers on a perforated cone or other form, substantially as described. In combi-nation with the hardening of such bat, while on such cone or other form, to give it the required consistency to ad-mit of taking it off in a suitable condition for sizing by the well known process of felting, substantially as de-scribed.

scribed. Doar Locks-J. P. Sherwood, of Sandy Hill, N. Y., assignor to Calvin Adams, and re-issued to said Sher-wood. Patented December 17, 1842, and re-issued to said Adams May 13th, 1851. I claim making the cases of door locks and latches doubled faced, or so finished that either side may be used for the outside, in order that the same lock or cased fastening may answer for a right or lefthand door, substantially as described. T also claim the peculiar construction and double ac-tion, upon an inclined and horizontal track or way, of the locking car, B, as described, and the combination of the locking car, B, as described, and the combination of the locking car, B, as destruction bar and boilt, A, as described, so as to fasten the bolt, c, securely, and pre-vent its being picked. I also claim so construction the bolt, as described, that by simply turning it over in the lock case, it is adapted to a right or left hand dor.

DESIGNS. COOKING STOVES-Daniel Wilson, of Nashua, N.H.

CYLINDRICAL COAL STOVES-Russel Wheeler and S. A. Bailey, of Utica, N. Y. COOKING STOVES-H. E. Bridge, of St. Louis, Mo.

BUST OF J. C. FREMONT-John Gott, of Albany, N.Y STOVES-N. S. Vedder and W. L. Sanderson, of Troy' N. Y., assignors to North, Chase, and North, of Phila-delphia, Pa.

STOVES—S. W. Gibbs, of Albany, N. Y., assignor to North, Chase, and North, of Philadelphia, Pa.

PARLOR STOVES-Jacob Beesley and E.J. Delaney, (assignors to Cresson, Stuart, and Peterson.) of Phila-delphia, Pa.

COOKING STOVES-N. S. Vedder, of Troy, N. I signor to Graff, Reisinger & Graff.

COOKING STOVE PLATES-N. S. Vedder (assignor to Mann, Torrance & Co.,) of Troy, N.Y. STOVES-Garrettson Smith, Henry Brown, and J. A. Read, of Philadelphia, Pa., assignors to Hayward, Bart-lett & Co.

Francis' Metallic Boats in England.

Renewed experiments-we learn by the London Mechanic's Magazine-have been made recently with the above-named boats at the Woolwich Arsenal. These were very satisactory, and the authorities, Sir G. Pollock Sir F. Abbott, Gen. Brooke, and Col. Tulloch, expressed their decision of urging the government to adopt them for every purpose to which they can be applied.

E

set forch. I also claim the gauge plates, N N N, in combination with the valve seat, or packing of the plunger fitting thereto for adjusting the measuring apparatus to the exact quantity to be drawn, substantially as specified.