

The powder is then assorted by means of other sieves and the dust returned again to the press. The edges or corners of the grains must next be worn off to prevent loss from dust while in transportation.

Missouri Tin.

We believe that the discovery of these mines has not as yet seriously influenced the tin importations or affected the market to any considerable extent. "Prospects" are excellent, and speculators are confident, but results do not seem to justify the extravagant stories so prevalent in the interested regions.

In the well-defined lodes, no shaft has been sunk more than 12 or 15 feet, and at this depth ore has been obtained from immense deposits, which will, in the opinion of Cornwall miners, yield from ten to 25 per cent.

The "Champion lode," at "Tin Mountain," is between 500 and 600 feet wide, standing nearly perpendicular, with a slight dip toward the west. This deposit of lode runs north and south, 20° east.

Men are yet incredulous, and can hardly believe that tin really does exist in Missouri, or elsewhere in the United States. Capitalists go to the tin region, collect specimens, ask scores of questions, and still cannot believe what is told them by Cornishmen there employed.

Several thousand acres of land have been purchased in this region by parties who have evidently designed to secure all the tin land, and much of it has been entered at government price; but the probabilities are that still other good lodes will be found outside of the limits thus far explored.

The schooner Leah had returned to San Francisco from the search for the island reported discovered in longitude 150 50 W. and latitude 40 40 N. The search, though extending as far west as 160 degrees, and from 39 to 41 north, was unsuccessful, no land being seen.

Return of "New Island" Expeditions.

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some of which, as well as several large birds resembling boobies, alighted on the vessel. Immense quantities of "Portuguese Men-of-war" were seen, the sea at times being literally covered with them, they resembling a sheet on the water and stilling the violence of the waves.

OFFICIAL REPORT OF PATENTS AND CLAIMS

Issued by the United States Patent Office, FOR THE WEEK ENDING AUGUST 13, 1867.

Reported Officially for the Scientific American

PATENTS ARE GRANTED FOR SEVENTEEN YEARS the following being a schedule of fees:-

Table with 2 columns: Fee description and Amount. Includes items like 'On filing each caveat', 'On filing each application for a Patent', 'On issuing each original Patent', etc.

In addition to which there are some small revenue-stamp taxes. Residents of Canada and Nova Scotia pay \$500 on application.

Patents containing the Patent Laws and full particulars of the mode of applying for Letters Patent, specifying size of model required, and much other information useful to inventors, may be had gratis by addressing MUNN & CO., Publishers of the SCIENTIFIC AMERICAN, New York.

67,625.—SPICE BOX.—Wm. E. Andrews, Cambridge, Mass. I claim, 1st, As a new article of manufacture, a portable set of spice drawers, made substantially as described and for the purposes set forth.

67,626.—JOINT SPLICE FOR RAILROAD RAILS.—Joseph Anthony, Greenbush, N. Y. I claim, 1st, The combination of the rails, A A, the splice rail, C, and the open link bolts, E.

67,627.—OINTMENT FOR HORSES.—G. P. Barnum, Marion, Iowa. I claim the compound consisting of quicksilver, nitric acid, pulverized cantharides, corrosive sublimate, red precipitate, and oil of vitriol, as an ointment to remove blemishes from horses and other animals, substantially as herein set forth and described.

67,628.—WAGON BEDS.—Riley Bratton, Oskaloosa, Iowa. I claim an improvement on ordinary wagon beds, as herein described, consisting of metallic standards with hooked ends fastening in staples, and the peculiar form of standards and location of staples, as my invention, by which a wagon bed may be easily and quickly taken apart and put together.

67,629.—FILLING FOR SAFES.—H. H. Bryant, Boston, Mass. I claim the use of sponge as a filling for a safe, or other structure of a similar nature, or any other porous and absorbent substance that is its substantial equivalent, as and for the purpose herein set forth.

67,630.—ADJUSTABLE REST FOR LATHES.—J. E. Burdge, Cincinnati, Ohio. I claim a hinge being one end of the tool block, F, to the transverse sliding head, C, by means of a wedge, B, or an equivalent device, whereby the cutting edge of the tool, H, may be raised or lowered as desired, while the lathe is in motion, or otherwise, and presenting it in a proper position to the material being turned, substantially as described.

67,631.—CARRIAGE COUPLING.—John H. Burrell, Jr., Charlestown, Mass. I claim a coupling made of three parts, A B and C, substantially as described and for the purpose set forth.

67,632.—BRICK CARS.—John K. Caldwell, Pittsburgh, Pa. I claim a lining the shelves of a car for drying brick, fruit, grain, and other articles requiring such treatment, to an upright standard, or to upright standards, being attached and supported by a truck or car frame, substantially as and for the purposes hereinbefore set forth.

67,633.—WINDOW FASTENING.—Benjamin F. Carleton, Nashua, N. H. I claim the combination of the button, E, with the spring, R, when made and arranged substantially as described and for the purpose set forth.

67,634.—HARROW.—L. Coleman (assignor to Willis S. Coleman), New Orleans, La. I claim the combination of the two series of revolving disks, B B B and C C C, or their equivalents, when the same are constructed and arranged substantially as described for the purpose set forth.

67,635.—CLOTH PLATE FOR SEWING MACHINE.—E. H. Craige, Brooklyn, N. Y. I claim, in the Wheeler & Wilson and other sewing machines with raised and movable cloth plate, the combination with the cloth plate, A, of a throat piece, B, that extends on the feeder and furnishes an opening by which the feeder may be removed and the running parts cleaned and oiled without removing the cloth plate, as set forth.

67,636.—LADDER.—Charles Croley, Dayton, Ohio, assignor to American Ladder Company, Hamilton, Ohio. I claim the combination of the grid gons, I, and notched bracket, K K, constructed and arranged as described, in connection with the troughed step, J, and separable or hinged ladders, A B, for the purpose set forth.

67,637.—STEAM GENERATOR.—James M. Dillon, Wheeling, West Va. I claim, 1st, The pipe or pipes, F, in combination with the T-joint, H, hollow plug, J, pipes, E, m, and mud drum, M, or their equivalents, substantially as described.

67,638.—AXLE BOX AND HANGER.—D. H. Dotterer, Philadelphia, Pa. I claim, 1st, An axle box provided with a detachable bearing, E, a curved projection, m, fitting a recess in an adjustable saddle, and with trunnions, d, fitted for sliding blocks, b, which are adapted to guides formed in the hanger, a, substantially as described.

67,639.—TRAVELER FOR THE JIB BOOM OF A VESSEL.—Sewall H. Downs, Bangor, Me. I claim providing the interior of the cap or box of the traveler for the jib boom with two or more rollers above, and two or more rollers below the bar,

and affixed, substantially as set forth, to enable the traveler to move surely and easily along the bar without danger of binding and to decrease the friction upon the several parts, for the purposes and in the manner substantially as set forth.

67,640.—MODE OF STRIKING GONGS OR BELLS.—Thomas G. Estes, Fall River, Mass. I claim the combination of gong, A, stand, B, knob, C, lever, E, cog, F, S, arm, G, hammer, H, and cam, K, with clock-work, as herein set forth and described.

67,641.—LOCK FOR PRISON DOORS, ETC.—Chas. F. Feiton, Buffalo, N. Y. I claim, 1st, The shell, B, having a hinged cover or door, b, in combination with a wall lock, substantially as set forth.

67,642.—WASHING MACHINE.—John B. Francis, Barnesville, Ohio. I claim the combination and arrangement of the adjustable and jointed or hinged concave wash board, x, and application thereof to the cylinder, H, by means of self-adjusting rock shaft, S, cords, weight, and pulley, P, in connection with the adjustable levers, O O and E E substantially as and for the purpose set forth.

67,643.—MOP HEAD.—O. S. Garretson, Cincinnati, Ohio. I claim making the collar of the loose jaw in two parts so that the nut, d, may be placed between them, and when connected together the collar surrounds the nut and retains it in position, for the purpose above set forth.

67,644.—IRONING MACHINE.—G. Gilbert and A. N. Allen, New Haven, Conn. I claim the segmental bed, C, arranged upon elastic bearings, and in combination with a polishing surface, constructed and arranged so that the said polishing surface may be heated, substantially as and for the purpose specified.

67,645.—MANUFACTURE OF TRUNK ROLLERS.—Harvy Gray (assignor to Albert J. Sessions), Bristol, Conn. I claim, as a new article of manufacture, a trunk roller with the frame, b, cast around the ends of the pivot or wire, c, substantially as described.

67,646.—REVERBERATORY AND CUPOLA FURNACE.—J. Durell Greene, Cambridge, Mass., and John A. Kay, Columbia, S. C. 1st, The combination of an ordinary cupola for melting iron, or other metal, with a reverberatory furnace, substantially as and for the purpose described.

67,647.—BEA BOTTOM.—Benjamin Griffin, Lawrence, Mass. I claim the cross wire, D, when connected with the concave bar, for the purpose set forth, and the swinging hooks, when combined with the slat, for the purpose specified.

67,648.—SELF-SUPPLYING MUCILAGE BRUSH.—Chas. Hamilton, New York City. Antedated Aug. 1, 1867. I claim an attachment to the cap or brush cover, now in use, of a piece of wire running from the center of the cap, inside, to an inch or so below its base, the wire passing, when the cap is on the bottle, through the tube or passage in the brush, in the manner and for the purposes herein substantially as set forth and described.

67,649.—BEEHIVE.—A. H. Hart, Stockbridge, Wis. 1st, I claim the lathed and plastered walls, H, in combination with the filled space, I, as and for the purpose substantially as set forth.

67,650.—HEEL PRESS FOR BOOTS, ETC.—Chas. H. Helms, Poughkeepsie, N. Y. Antedated April 1, 1867. 1st, I claim the combination of the articulating joint, H, with the plunger, J, and lever, J, arranged and operating as hereinbefore set forth, for compressing the heels of boots and shoes.

67,651.—TWEER FOR BLAST FURNACE.—Benj. H. Hibler, McKeesport, Pa., assignor to Pittsburgh and McKeesport Car Company. I claim, 1st, A tweer consisting of a pipe, or the prolongation of the blast pipe, or a connecting furnace, which extends into the cupola beyond the inner face of its wall or lining, and to or toward the center of the cupola, substantially in the manner and for the purposes above set forth.

67,652.—FEEDING DEVICE FOR SEWING MACHINES.—James A. and Henry A. House, Bridgeport, Conn., assignors to Wheeler & Wilson Manufacturing Co. We claim, 1st, The vibrating feed frame, I, constructed, arranged, and operated substantially as and for the purpose described.

67,653.—TUCKING GAGE FOR SEWING MACHINES.—James A. and Henry A. House, Bridgeport, Conn., assignors to Wheeler & Wilson Manufacturing Co. We claim, 1st, The attachment of the tucking gage to the presser foot of a sewing machine by the hooks and eccentric clamp, for the purpose of readily removing and replacing the gage without disturbing the glass of the presser foot.

67,654.—DOVETAIL CUTTERS.—John C. Hursell, Boston, Mass. I claim a cutting tool constructed and arranged for operation, substantially as and for the purposes herein described.

67,655.—SCREW-CUTTING MACHINE.—Clark Jillson, Worcester, Mass. I claim, in a machine for cutting screws, the combination of the die holder with the mechanism for rotating the same, arranged substantially as and for the purposes herein described.

67,656.—SEED PLANTER.—W. D. Johnson, Raleigh, N. C. I claim the construction of the conical hopper, E, with its stirrers, K, and center wheel, H, when arranged and operated with a plow, D, in front and harrow, M, in the rear as herein described and for the purposes set forth.

67,657.—MEDICAL COMPOUND.—Carlos Judson, Mrs. Wis. I claim the use of a medical compound combining the medicinal properties of the ingredients specified mixed together in about the proportions and substantially as and for the purposes set forth.

67,658.—CHEESE HOOP.—O. A. King, Bedford, Ohio. I claim the lever, C, links, E, and lugs, H, arranged in relation to the hoop substantially as and for the purpose set forth.

67,659.—AIR ENGINE.—Eugen Langen, and N. A. Otto, Cologne, Prussia. 1st, We claim the peculiar mode of communicating the downward and backward motion of the piston under atmospheric pressure only to the engine shaft by means of a clutch apparatus so arranged that the speed of the piston is rendered independent of the speed of the engine shaft.

67,660.—GRAIN DRILL TUBE.—S. K. Lighter, Thos. Harding Joseph Curtis, Hamilton, Ohio. 1st, We claim the tube, F, g, i, made with open coils in the manner for the purposes described.

67,661.—TAG OR LABEL.—E. A. Locke, Boston, Mass. I claim a tag or label composed of the metal embossing plate, a, and the inscription or marking plate, b, when these are connected together and to a confining band, d, by an eyelid, c, which at the same time secures the corners of the metal in bent over position, substantially as shown and described.

67,662.—MODE OF RAISING THE GRADE OF RAW SUGAR.—Alex. Mackey, N. Y. City, and Eberhardt Müller, Brooklyn, N. Y. We claim raising the grade of raw sugar by placing it in a dry or comparatively dry state in a centrifugal machine, and therein subjecting it to a washing operation substantially as herein described.

67,663.—CUPPING APPARATUS.—Morris Mattson, N. Y. City. I claim the combination with any suitable cup or vessel, A, adapted for cupping and similar purposes, of an elastic exhausting bulb, B, provided or fitted with a valvular apparatus constructed substantially as described and on the principle described in letters patent granted to me April 4, 1854.

67,689.—HITCHING DEVICE FOR HORSES.—M. Warue, and W. H. Pearce, Philadelphia, Pa. 1st. We claim a hitching device consisting of a rod or bar, A, to the ends of which are secured straps, C, D, or their equivalents, substantially as and for the purpose described.

arms, D, D, when said arms are provided with hooks, e, e, the whole being arranged within the case, A, in the manner specified. 67,713.—CORN SHELLER.—Jacob Brinkerhoff, Auburn, N. Y. I claim the ribbed plates, d, in combination with blocks, g, when operating as and for the purpose herein set forth.

