

metallic box, E, with its upper and lower apartments, G, and link, H, operating on the pivot, J, of the case; K, substantially as herein described.

43,374.—Portable Coffee Mill.—Sam. H. Witmer, assignor to Mahlon M. Wambaugh, Cincinnati, Ohio :  
I claim the portable telescopic coffee-mill, constructed substantially as described.

43,375.—Railroad Car Coupling.—Rich. D. Chatterton, Bath, Great Britain :  
I claim the combination of the pawl, B B', coupling-head, d d', and bearing, D d, arranged and operating substantially as and for the purposes specified.

[This invention consists in the employment or use of a shackle in connection with a pawl or catch placed in the draw-head, and all so arranged that a self-connecting car-coupling is obtained, and one which will be applicable to the securing of draught-poles and thills to ordinary horse carriages.]

43,376.—Sugar-mold.—Carl Kronig, Vienna, Austria :  
I claim the new article of manufacture herein described, being a sugar-mold formed of papier-mache, in the manner substantially as set forth.

43,377.—Water Defences as the Protecting Armor of Vessels.—Albert Pagenstecher, Valparaiso, Chili :  
I claim, first, The employment or use of bags made of india-rubber or other suitable material, and filled with water, substantially as herein specified, for the purpose of forming armor for a vessel.  
Second, The application to the sides of a vessel of sheets, B, of india-rubber, or other suitable flexible and elastic material, to operate in combination with metal strips, C, and adjusting bolts, E, substantially in the manner and for the purpose herein shown and described.

[This invention consists in the application to the outside of a vessel of a series of chambers with flexible sides, made of sheets of india-rubber, or other suitable elastic material, to be filled with water when in action, and emptied when not in action in such a manner that the armor can be drawn up tight to its sides, where it does not interfere with the sailing qualities of said vessel, and when preparing for action the armor can be expanded by filling the chambers with water, thus encasing the entire vessel in a water-jacket, and protecting it against projectiles of any kind that may be hurled against it.]

43,378.—Metal Cans, Cases, Boxes, etc., for preserving food, gunpowder, liquids, paints, oils, and other articles.—Jean Bouvet, La Rochelle, France, assignor to Moritz Primer, New York City :  
I claim the manufacture and use of metal boxes, cans, cases, and other metallic vessels, hermetically sealed or closed by inserting and soldering a wire between the body and the intended opening of such metal box, can, case, and other metallic vessel, one end of such wire protruding at the outside for beginning and effecting such opening.

RE-ISSUES.

1,709.—Roller for expressing Water from Clothes.—Selden A. Bailey, Simeon S. Cook and Benedict M. Cook, Woonsocket, R. I., assignees by mesne assignments of John Allender, New London, Conn. Patented Jan. 11, 1859 :  
We claim, first, A roller so constructed as to yield more at its center than at or near its ends, in combination with a covering of vulcanized rubber of tubular form, as and for the purpose set forth.

Second, Cog-wheels, in combination with elastic rollers, constructed and used substantially as set forth.

1,710.—Machine for wringing Clothes.—Selden A. Bailey, Simeon S. Cook and Benedict M. Cook, Woonsocket, R. I., assignees by mesne assignments of said S. A. Bailey. Patented April 5, 1859 :  
We claim, first, The employment of the cylindrical wooden spring-piece, a, which is divided in two parts at its center, each part being fitted with a slot from the place of division, as shown in the drawing, towards its outer end, the same being covered by rubber cylinder, substantially in the manner and for the purpose specified.

Second, The spring, F, in combination with elastic rollers, for the purpose set forth.

1,711.—Electro-magnetic Bathing Apparatus.—James Young, New York City. Patented May 14, 1861 :  
I claim, first, The use of the above-described electrodes, i, i', charged and operated in the manner and for the purposes herein before specified.

Second, The use of adjustable metallic plates or electrodes, i, i', in combination with stationary metallic plates or electrodes, G and D, connected with an electro-magnet in combination with a non-conducting bath-tub, for the purpose specified.

Third, The combination of the bathing-tub, A, an electro-magnet, metallic strip, q q', and brakes, r r', r' r' r' r' r' r' r', for the purpose of charging at will each or all of the metallic plates or electrodes, in the tub, A, and operating substantially as described.

Fourth, The combination of a non-conducting bath-tub with a metallic plate or electrode at each end, one electrode being connected with a positive pole, and the other electrode with a negative pole of an electro-magnet.

Fifth, The use of the main switch, n n', by which the polarity of all the brakes, r r', r' r' r' r' r' r' r' are at once reversed, and by one movement.

Sixth, The combination of an electro-magnet, M, bathing-tub, A, and metallic vessel, H, with a rod, m, operating as and for the purpose set forth.

Seventh, So combining a swing-tub, A, switch, N, and an electro-magnet, M, that by the oscillating motions of the tub the current is changed.

Eighth, So arranging the top-rail, a, on the sides of the tub, that the same projects over the inside and outside, in the manner and for the purposes set forth.

Ninth, I claim the stationary metallic guides or side-rails, j j', attached to the sides or top-rail of a bath, when used for maintaining in position, guiding or charging with electricity the electrodes, i i', substantially as described.

1,712.—Elevating and delivering Water from Wheels.—James Daykin, Cleveland, Ohio. Patented August 21, 1860 :  
I claim, first, The inclined board, K, or its substantial equivalent, as herein described, in combination with the spouts, A' and E', bucket, E, valve, M, rod, L, rope, S, or its described equivalent, and counter-balance weight, F, the whole being constructed, arranged and operated in the manner and for the purpose set forth.

Second, I claim throwing the lower end of the bucket forward over the delivery spout by means of the inclined board, K, whether said board is entire or only represented by its operative parts of contact, as herein described, and opening the valve, M, by the same movement, by means of the rod, L, in the manner herein fully set forth.

1,713.—Stave Machine.—Jonathan E. Warner, Boston, Mass. Patented Nov. 15, 1853 :  
I claim clamps, which support the interior surface of a stave, and are combined with and turn on an axis which is at substantially the same distance from the position of the stave as the axis of the barrel of which the stave is to form a part, substantially as set forth, in combination with a revolving cutter for bevelling the end of a stave, and also in combination with a revolving crozing cutter, each acting on the stave substantially as described.

I also claim pairs of clamps mounted and turning on an axis having the relation to the barrel described, whereby one stave may be adjusted in readiness for working off on one pair of clamps, while another stave supported on another pair of clamps is being worked off by revolving cutters as specified.

I also claim a combination of dressing up cutters with unyielding exterior clamps for the stave to be dressed up, and with yielding interior clamps turning on an axis, substantially the same as that of the barrel to be formed by the stave, all being and operating substantially as set forth.

I also claim the combination of exterior and interior clamps for the stave, which latter turn on an axis located with reference to the stave, substantially as described, with revolving cutters for bevelling, bowing and crozing the two ends of the stave without removing from between the clamps, all being and operating substantially as set forth.

I also claim the combination of exterior and interior clamps for the stave, the latter turning on axis located with reference to the stave, as described, with two sets of revolving cutters and two circular saws, all being and operating substantially as set forth, so that the stave may be worked off by applying it once to the machine.

I also claim cutter-heads and exterior clamps which are adjustable lengthwise of a stave, substantially as described, in combination with interior clamps also adjustable lengthwise of the stave, as set forth, whereby staves of different lengths may be worked off in the same machine, as specified.

I also claim the combination of the internal clamps for the stave with their axis in such manner that they may be adjusted radially, substantially as set forth.

1,714.—Machinery for the manufacture of Wool and other fibrous materials.—Eben D. Jordan, Boston, Mass., assignee by mesne assignments of John Goulding. Patented December 15, 1826. Reissued July 29, 1836. Extended Aug. 30, 1862, by Act of Congress :  
First, I claim, in combination, the following sets of apparatus, or elements making up a machine namely: first, a bobbin-stand or reel; second, bobbins on which roving may be wound; third, guides or pins; fourth, a carding-machine; fifth, condensing and drawing-off apparatus; and sixth, winding apparatus, all substantially as are herein described, whereby rovings may be fed to a carding-machine, carded, condensed, drawn out and wound again in a condensed state, substantially in the manner herein before set forth.

Second, I claim the feed-rollers of a carding-machine, in combination with bobbins and proper stands therefor, and guides or pins, whereby slivers or rovings may be fed to be carded by mechanism, substantially as herein described.

Third, I claim a delivering-cylinder of a carding-machine, in combination with apparatus for drawing off, condensing or twisting, and winding carded filaments, the apparatus being substantially as are herein described, whereby carded filaments may be delivered, drawn off, condensed and wound in a condensed state upon bobbins, as herein before set forth.

And, lastly, I claim a mule or spinning-frame provided with spindles mounted on a carriage, and with jaws or their equivalents for retaining roving, in combination with bobbins whose axes are parallel or nearly so with the line of spindles, and rest upon crums revolving to unwind the bobbins, the combination being and operating substantially as herein before set forth.

DESIGNS.

1,966.—Clock-case.—Robert Dunn, Greenpoint, N. Y.

1,967.—Group of Figures.—John Rogers, New York City.



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