

a projection against which the outer end of the spring bears and thereby maintains said pan firmly in closed position. 11th. The combination, with a top piece and two bottom bars or abutments extending between the end walls on opposite sides of the brush roller of the dust pans forming the sides of the case, said pans having their upper portions hinged to opposite sides of said top piece, and their lower portions bearing against the outer sides respectively of the bottom bars. 12th. The combination, with an end wall having a recessed upper portion and a spring plate fitted over said recess, of a handle arm pivoted in the vertical opening formed by the recess and plate and adapted to have detent and eye engagement with the upper extremity of said spring plate or latch. 13th. The combination, with two transverse walls connected together, and drive wheels secured to one of them, of a top piece provided with tilting pans and a transverse wall, which latter encloses the drive wheels, said parts being adapted to permit the top piece with its pans and wall to be readily attached to or detached from the connected transverse walls and drive wheels. 14th. The combination with a pivoted plate on which a drive wheel is journaled and a spring which engages with a lug formed on said plate of a handle arm adapted, when in an inclined position, to bear against said spring so as to maintain the wheel in close contact with the friction roller.

No. 11,546. Mode of Preventing Bearings from Heating. (*Mode d'empêcher les coussinets de chauffer.*)

James Dempsey, Lewiston, Me., and Lysander Flagg, Central Falls, R. I., U. S., 24th July, 1880; for 5 years.

Claim.—The mode of preventing bearings from overheating, by means of metallic clothing arranged and operating to dissipate the heat.

No. 11,547. Improvements on Pillow Sham Holders. (*Perfectionnements aux porte-imitation d'oreillers.*)

Mary A. Steers, Kalamazoo, and Eliza A. Brown, Breedsville, Mich., U. S., 24th July, 1880; for 5 years.

Claim.—1st. A pillow sham supporter or holder composed of bars B B having looped and hooked ends, hooks *ee* and clip C having holes *tt*. 2nd. A rectangular frame formed of bars having bowed ends lapping past each other at the sides and ends of the frame and clips securing together the said lapping ends of the bars, which bars are adjustable in said clips.

No. 11,548. Improvements in Combined Churns and Washers. (*Perfectionnements aux barattes-lavouses.*)

Cloero D. Van Allen, Guelph, Ont., 24th July, 1880; (Extension of Patent No. 5,063.)

No. 11,549. Process for Manufacturing Lubricating Oils. (*Procédé de préparation des huiles à lubrifier.*)

Thomas J. Gordon, Delos H. Bumpus and William H. Keeler, Rousseville, Pa., U. S., 24th July, 1880; (Extension of Patent No. 5,035.)

No. 11,550. Peat Machine. (*Machine à tourbe.*)

Franklin Dodge, Benjamin J. Denton and James M. Hart, Oswego, N. Y., U. S., 24th July, 1880; (Extension of Patent No. 5,028.)

No. 11,551. Hay Press. (*Presse à foin.*)

Peter K. Dederick, Albany, N. Y., U. S., (Assignee of Charles G. C. Simpson, Montreal, Que.), 24th July, 1880; (Extension of Patent No. 932.)

No. 11,552. Improvements on Grain Binders. (*Perfectionnements aux lieuses à grain.*)

Moses G. Hubbard, Jr., Morristown, Pa., U. S., 28th July, 1880; for 5 years.

Claim.—1st. In a wire twister for a grain binder, the combination of the single slotted twister pinion with its movable knife or cutter held stationary while cutting the wire. 2nd. In a binder for grain, the combination of the segment C provided with a single rack D and cam E, head B carrying the slotted pinion F, cutter H and spring J. 3rd. The slotted twister pinion F, in combination with the cutter H and spring J. 4th. The combination of cutter H having cutting edge I and bevelled edges *hh* with segment C provided on one side with the cam projection E and, on the opposite side, the slot Et having bevelled edge *et*.

No. 11,553. Ornamental Fountain. (*Jet d'eau.*)

Rudolf Mylius, Berlin, Oat., 24th July, 1880; for 5 years.

Claim.—The construction of the cock K, the spigot L and the connection therewith of the tubes B C H I, and the reversible bulb reservoirs G G.

No. 11,554. Apparatus for Purifying and Ageing Liquors. (*Appareil pour épurer et vieillir les liqueurs.*)

Amos L. Wood, Boston, Mass., U. S., 28th July, 1880; for 5 years.

Claim.—1st. An apparatus for purifying and ageing liquor, the combination of the barrel or package for containing the liquor to be purified and aged, and the perforated pipe located within said barrel and connected to a pipe leading therefrom, of a saving or overflow chamber directly connected with the barrel. 2nd. A saving or overflow chamber serving to arrest and condense any portion of the liquor which by agitation may be caused to rise thereto, in the form of vapor or spray, and return the same in liquid form, thus preventing waste of the liquor and material lowering of its proof. 3rd. The combination of the saving or overflow chamber *e* provided with a contracted nozzle or spout and eduction pipe *h*, the hot air pipe *g* passing through said chamber and terminating in a perforated bent portion, below the nozzle or spout thereof, the heater, the heating pipe *g* passing through said heater and connecting with the hot air pipe *g*, a suitable air forcing apparatus con-

neoted with the said heating pipe, the condenser and the pipe terminating therein and connected with the eduction pipe *h*. 4th. The combination, with the saving or overflow chamber *e*, of the hooked adjustable extension rods.

No. 11,555. Improvements in Envelopes. (*Perfectionnements dans les enveloppes.*)

Emery O. Bicknell, Boston, Mass., U. S., 28th July, 1880; for 5 years.

Claim.—An envelope having aniline lines or markings, plain or ornamental, arranged on the outside of the flaps A B and a little back from the edges thereof, said lines or markings being adapted to change colour if the envelope is tampered with by the application of steam or moisture.

No. 11,556. Improvements on Clothes Wringers. (*Perfectionnements aux essoreuses à linge.*)

Benjamin Hershey, Erie, Pa., U. S., 28th July, 1880; for 5 years.

Claim.—1st. In combination with the standards of a clothes wringer and the lower roller thereof, journaled in fixed bearings, an upper roller journaled at each end between friction rollers journaled at the upper ends of the respective standards, and similar friction rollers in the levers pivoted to the said standards, the said levers being connected at their outer ends to a suitable spring by means of links whereby a uniform pressure may be maintained upon the rollers respective of the thickness of the body of clothes passed between them. 2nd. In combination with the upper and lower rollers of a wringing machine, the friction rollers at the lower part of the standards forming fixed bearings for the lower roller, the friction rollers at the upper ends of the standards, and the friction rollers journaled in the respective levers forming yielding bearings for the upper roller, the links secured to the ends of said levers, and the spring connected to said levers by means of links with mechanism for regulating its tension.

No. 11,557. Improvements on Kitchen Safes.

(*Perfectionnements aux armoires de cuisine.*)

George W. Reid, Port Dalhousie, Ont., 28th July, 1880; for 5 years.

Claim.—1st. In kitchen safes, the combination of the hinged pastry board and flour box cover D, the flour box A and the scrap box E. 2nd. The combination of the flour box A, combined cover and bake board D, scrap box E, the cup board B and the drawer C.

No. 11,558. Road Scraper. (*Eboueur.*)

Jesse Stubbs, (Assignee of Frederick W. Schultz,) Mount Pleasant, Iowa, U. S., 28th July, 1880; for 5 years. (extension of Patent No. 5,032.)

No. 11,559. Improvements on Fanning Mills.

(*Perfectionnements aux tarares cribleurs.*)

John Herson, Florence, Ont., 28th July, 1880; for 5 years.

Claim.—The shoe or case H and screws B B B having a bottom formed of a series of troughs E F G, in combination with the shoe of a fanning mill or thrashing machine.

No. 11,560. Improvements on Car Couplers.

(*Perfectionnements aux attelages des chars.*)

William C. Perry, Battleborough, Vt., U. S., 28th July 1880; for 5 years.

Claim.—1st. In drawheads A H provided with coupling bar orifices B B, slots C C, link opening E E and recessed faces *b b*, coupling bars D D, springs C C C and spring catches F F. 2nd. The drawhead A provided with coupling bar orifice B, coupling bar slot C having spring C C, link opening E, recessed face *b* and spring actuated bevelled catch F. 3rd. The combination with the coupling bar D and catch F, or the rope or chain G and brake shaft H. 4th. The combination with the catch F of the rope or chain G and levers L N, whereby said cars may be uncoupled from the sides or top of a car. 5th. As a means for holding the cars coupled, the pivoted catch F actuated by spring F₁.

No. 11,561. Improvements on Clothes Wringers. (*Perfectionnements aux essoreuses à linge.*)

Richard Dudley, and Benjamin Hershey, Erie Pa., U. S., 28th July, 1880; for 5 years.

Claim.—1st. In combination with the upper roller of a clothes wringer, the spring secured to the rear of the wringer frame, having its ends bent downward and to the front of the frame, and provided in the bearings for the upper roller, whereby an automatically regulated yielding pressure is brought to bear upon the clothes irrespective of the thickness of the body or the same when passed between the rollers. 2nd. In combination with the upper roller and the spring which carries the same, the arm or loop on said spring and adjusting mechanism, whereby the tension of the spring may be adjusted. 3rd. In combination with the spring carrying the upper roller, the boxes secured to said spring at their ends carrying friction rollers or balls, forming bearings for the journals of the upper roller. 4th. In combination with the back board of the wringer and the lower roller thereof, the drip-plate whereby the water is directed back into the tub or vessel as the clothes pass between the rollers. 5th. In combination with the base of a clothes wringer, the swivelled clutches, screw connecting rod and screw nut, whereby said clutches can be drawn towards each other and cause to bind upon the edge of a tub or other vessel.

No. 11,562. Improvements in Glove and Shoe Clasps. (*Perfectionnements aux agrafes de gants et de souliers.*)

Henry O. Lothrop, Boston, and Frank B. Lothrop, South Acton, Mass., U. S., 28th July, 1880; for 5 years.

Claim.—1st. A glove fastening consisting of the spring B and the parts K K in one piece, and the part C. 2nd. The combination of the spring B and the parts K K in one piece, with the parts C D, all arranged and combined to operate as specified.