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INVENTIONS PATENTED.

No. 15,705. Improvements on Spring Beds.

(Perfectionnements aux lits à ressorts.)

La Fayette Wildermuth, New Lexington, Ohio, U. S., 26th October, 1882; (Extension of Patent No. 11,867.)

No. 15,706. Improvements on Spring Beds.

(Perfectionnements aux lits à ressorts.)

La Fayette Wildermuth, New Lexington, Ohio, U. S., 27th October, 1882; (Extension of Patent No. 11,867.)

No. 15,707. Improvements on Boxes for Berries. (Perfectionnements aux boîtes à fruits.)

The Smith Manufacturing Company, (Assignee of Seth H. Smith.) Delta, Ohio, U. S., 27th October, 1882; for 5 years.

Claim.—1st. The combination, with a bent wooden box, of a lining folded from a single uncut sheet and secured in position by means of the hooked ends of the wire bail, or handle. 2nd. The improved box, or bucket having sides G, ends B and flaps I, in combination with the lining folded from a single uncut sheet and having flaps K, and the wire bail or handle having hooked ends M passing through the ends and flaps of the box and lining, which are thereby secured together.

No. 15,708. Improvements on Heating Apparatus. (Perfectionnements aux calorifères.)

John F. Pease, Syracuse, and Ephraim K. West, Baldwinsville, N.Y., U. S., 2nd November, 1882; for 5 years.

Claim.—1st. The fire pot A, combustion chamber C and smoke-box C', superstructured successively one upon the other, the radiator B arranged around the exterior of the combustion chamber and communicating with the smoke-box C', the boiler B arranged inside of the combustion chamber with the fire passage a between them and provided with flues f, and the steam pipe b, in combination with the inclosing case D provided with hot air ducts P. 2nd. The combination of the combustion chamber C having the smoke-box C' seated upon the ledge C on the interior of the combustion chamber, the boiler B suspended from said ledge c and having the fire passage a around its sides, and the steam pipes b extended vertically from the centre of the upper end of the boiler, through the top of the smoke-box B' and provided, above the latter, with the nut n.

No. 15,709. Improvement in Vehicle Dashes.

(Perfectionnement des garde-crotte des voitures.)

William F. Elliott and Shields D. Lance, Columbus, Ohio, U. S., 2nd November, 1882; for 5 years.

Claim.—1st. The combination of a vehicle dash having a solid forged or welded foot and a metal tube, through which to pass a screw bolt clamping to the foot the tube or bearing piece. 2nd. A solid welded foot to admit an ordinary sewing machine to stitch below the bottom rail and to pass between the dash apron and the outside of the vehicle body, vertically and laterally adjustable to vehicle bodies of different

heights and widths. 3rd. A brace or angle iron attached to the bottom sill extending up the corner post and over the top of the body to the dash frame, in connection with a bearing piece or tube extending through the body and against which the foot is clamped. 4th. A dash with a solid foot vertically and laterally adjustable to vehicle bodies of different heights or widths. 5th. The combination of a dash having a solid foot, with an angle iron, an eccentric screw-bolt and a thimble or bearing piece against which to clamp the foot. 6th. A fastening attachment for vehicle dashes having solid feet consisting of a thimble extending through the body, clamping the solid foot to the thimble, a screw-nut clamping an angle iron to the thimble, and a screw bolt passing through the foot, the thimble, the angle iron and the nut.

No. 15,710. Improvements on Brush Holders. (Perfectionnements aux porte-brosses.)

William H. Miles, jr., Brooklyn, N. Y., U. S., 2nd November, 1882; for 5 years.

Claim.—1st. In a brush-holder, interiorly projecting elastic supporters located and arranged as explained, so as to bear against the bristles of the brush and prevent wear upon the edges of the brush back, when the brush is inserted or removed. 2nd. In a brush-holder open at top and bottom, for the insertion and removal of the brush, the combination with the brush receptacle of an interior projection located at, or near, the lower mouth of the receptacle and in the path of the brush. 3rd. The combination of the brush supporting springs located and arranged so as to bear against the bristles of the brush, and the series of cleaners located in the path of the brush. 4th. In a brush-holder open at top and bottom and provided with spring supports for the brush, the cleaners located at, or near, the lower mouth of the brush receptacle for the objects named. 5th. The improved brush-holder composed of the back, side walls and face, the spring supports for the brush arranged to bear against the bristles thereof and the cleaners located at, or near, the lower mouth of the brush receptacle. 6th. The back A, the side and front walls B B C, and the comb pocket p cut in the base and covered with the thin plate p'.

No. 15,711. Improvements on Car Brakes.

(Perfectionnements aux freins des chars.)

Samuel Holladay, (Assignee of Amos C. Springer,) San Francisco, Cal., U. S., 2nd November, 1882; for 5 years.

Claim.—1st. A continuous train brake composed of telescopic rack bars, pinion and winding drum attached to each car and connected with the brake lever, the said rack bars of the respective cars of the train being connected together and arranged to be operated at the ends of the train, or intermediately. 2nd. In a car brake device, a series of rack bars adapted to move pinions and winding devices which operate the brake shoes, said rack bars being provided with sliding telescopic connections to take up the slack. 3rd. If a device adapted to brake a series of cars simultaneously, the combination of telescopic rack bars and winding devices, with the spring P interposed between the brake lever D and the shaft I.

No. 15,712. Improvements in Hydraulic Motors. (Perfectionnements aux moteurs hydrauliques.)

Nicholas Yagn, St. Petersburg, Russia, 2nd November, 1882; for 15 years.

Claim.—1st. The hydraulic motor apparatus constructed with one, or more endless ropes, provided with parachutes, flaps, or paddles, distending under the pressure of the water and folding or closing together, when moving against the current, and with knots by means of which the ropes or ropes impart motion to a drum or pulley provided with corresponding teeth or projections. 2nd. The combination of the hydraulic motor apparatus, with a towing chain or other contrivance, for moving vessels against the current.

No. 15,713. Improvements on Looms.

(Perfectionnements aux métiers des tissands.)

Alexander Smith and Halcyon Skinner, Yonkers, N. Y., U. S., 2nd November, 1882; (Extension of Patent No. 8160.)