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INVENTIONS PATENTED.

NOTE—Patents are granted for 15 years. The term of years for which the fees have been paid, is given after the date of the patent.

No. 17,104. Berth for Sleeping Cars.

(*Lit de wagon-dortoir.*)

Gustave Leve, New York, N. Y., U. S. (assignee of Adolphus Davis, Montreal, Que.) and Henry P. Alden, Montreal, Que., (assignee of the said Gustave Leve), 2nd July, 1883; 5 years.

Claim.—1st. The combination, with a swinging berth cupboard, of a mattress or bed made up of slats, hinged in the centre so as to form two divisions, said mattress being also hinged above end to said cupboard adapted to be folded inside same, substantially as and for the purpose set forth. 2nd. The combination, with the swinging cupboards A A, of the beds or mattresses E E pivoted to one cupboard and hooked on to another, and stanchions F F arranged so as to form side rails for same, substantially as set forth. 3rd. The combination, with the cupboard A and pivot *g*, of the metal bed or mattress E₂ having slots or loops *e* at the ends of its outer slats, substantially as and for the purpose set forth. 4th. The combination, with the cupboards A provided with steps or holders *a a* and clips *a* *a*, of the stanchions F F arranged as described, for the purpose set forth. 5th. The combination, with the cupboards A A provided with hook supports C C and male supports *f*, of the stanchions F having eyes *f* and sockets *f*, substantially as described.

No. 17,105. Improvements in Sand Dryers.

(*Perfectionnements aux sécheries à sable.*)

John G. McPherson, Mattoon, Ill., U.S., 2nd July, 1883; 15 years.

Claim.—1st. The combination, with the fire chamber A having the conical top L, the pipes B B, and the plate N provided with the apertures *n n*, of the cover D having central opening *d*, and the wall E surrounding the said chamber and pipes and provided with the hopper H, substantially as shown and described, and for the purpose set forth. 2nd. The combination, with the fire chamber A having a conical top, the pipes B B, the plate N having apertures *n n*, the cover D and the ash-box G, of the ring N of larger diameter than the ash-box and provided with the discharge opening *f*, the ways or ribs *d*, and the upwardly projecting flange *l*, the sliding plates *b* and the wall E provided with the hopper H, substantially as shown and described. 3rd. The combination, with the fire box A having conical top L, of the pipes B B, the plate N provided with the apertures *n n* to receive the said pipes and the vent apertures *f*, substantially as shown and described.

No. 17,106. Music Leaf Turner.

(*Tourne-feuille de musique.*)

John M. Wittman, St. Marys, Pa., U.S., 2nd July, 1883; 15 years.

Claim.—1st. A music leaf turner, constructed as shown and described, with a series of rectangularly bent torsion springs to which the separate leaves are held as set forth. 2nd. A music leaf turner constructed with a series of rectangularly bent torsion springs, to which the leaves are held, and with a latch for locking the ends of the several springs in place and releasing them successively, substantially as shown and described, and for the purpose set forth. 3rd. A music leaf turner constructed with a spring wire for holding the music sheets or book on the rack, rectangularly bent torsion springs to which the several sheets are held, and a latch for locking the springs in place and releasing them successively, substantially as shown and described, and for the purpose set forth. 4th. The combination, with

the rack B, of the rectangularly bent torsion springs F, the clamps G on the ends of the same, the slotted standard H, and the latch K pivoted on the same, substantially as shown and described, and for the purpose set forth. 5th. The combination, with the rack B, of the springs F, the clamps G attached to the ends of the same, the slotted standard H, and the latch K pivoted in the same, and the spring N in which the standard H is secured, substantially as shown and described, and for the purpose set forth. 6th. The combination, with the rack B, of the springs F, the clamps G, the standard H and the latch K provided with a slot *l*, substantially as shown and described, and for the purpose set forth. 7th. The combination, with the rack B, of the springs F, the clamps G, the standard H, the latch K provided with a notch *k*, and a prong *l*, substantially as shown and described, and for the purpose set forth. 8th. The combination, with the rack B, of the springs F, the clamps G, the standard H, the latch K and the spring N, substantially as shown and described, and for the purpose set forth. 9th. The combination, with the rack B, of the plate E having recesses *e*, the springs F, the clamps G, the standard H and the latch K, substantially as shown and described, and for the purpose set forth.

No. 17,107. Machine for Setting Tires.

(*Machine pour ajuster les bandages de roues.*)

James D. McPherson, Fingal, Ont., 2nd July, 1883; 5 years.

Claim.—1st. The combination of a tank A being of a length equal to the diameter of the iron plate C and the length of the legs D, the latter hinged to the bottom of the tank A and the frame B to move longitudinally, said plate C secured to the frame B to receive the wheel and tire T and provided with a suitable device for securing the wheel hub thereto and having, connected therewith, suitable means for lifting or lowering the table consisting of the lever L hinged to the tank and connected to said plate by a link N, said tank being provided with stops or rests E to receive the table when lowered. 2nd. The combination of a tank A provided with stops or rests E, a table consisting of a frame C supported upon legs D hinged thereto by hinges H, and to the bottom of the tank by hinges H, said tank allowing room for the table being folded down upon the stops E. 3rd. A tank A containing a table connected thereto by hinged legs D, said tank allowing space for the lowering and submerging of the table by its swinging over through an arc, and provided with suitable means of raising and lowering the same, all substantially as described and for the purpose set forth.

No. 17,108. Apparatus for Drying Glue, etc.

(*Appareil de dessiccation de la colle, etc.*)

William A. Hoeveler, Pittsburgh, Pa., U.S., 3rd July; 5 years.

Claim.—1st. A drying chamber, substantially air tight, having a power-driven air circulating device and a motor therefor located both within said chamber, substantially as described. 2nd. In a drying apparatus adapted to the continuous movements of its contained air, the combination of two twin alleys intercommunicating at the ends only and adapted to receive the material to be dried, an air forcing apparatus at one end of one alley, and a surface condenser at the same end of the other alley, substantially as described. 3rd. The drying apparatus consisting of the alleys A B, blower D, heating-coil G and condensing coil H, substantially as described.

No. 17,109. Glue Stock Washer.

(*Machine à laver les colles-matières.*)

William A. Hoeveler, Pittsburg, Pa., U.S., 2nd July, 1883; 5 years,

Claim.—1st. The combination of a rotary paddle wheel *e f* and a semi-circular wash-box B having rounded perforated bottom, substantially as described. 2nd. The combination of a semi-circular wash-box having a perforated bottom, and a rotary paddle wheel having its paddles rounded on one side, and flat on the other, and capable of having either side presented to the direction of motion, substantially as described. 3rd. The combination of a semi-circular wash-box having a perforated bottom, and a rotary paddle wheel having its paddles rounded on one side and flat and beveled or skewed on the other, and capable of having either side presented to the direction of motion, substantially as described. 4th. The combination, with the perforated principal wash-box, of a screen located beneath