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INVENTIONS PATENTED.

No. 10,760. Improvements on Rail'y Brakes. (Perfectionnements aux freins des chemins de fer.)

Stephen P. Tallman, Dunellen, N. J., U. S., 24th December, 1879, for 5 years.

Claim.—1st. In an automatic mechanism for operating railway carriage brakes from either end of the car, the arrangement of a shifting brake mechanism at each end of the car and connected through an evener, and the pawl and ratchet device arranged to operate inversely at opposite ends of the car; 2nd. The push bar, provided with a retracting spring and arranged to be shifted, in combination with a draw head provided with a projecting lug or part; 3rd. The push bar provided with an adjustable head and a suitable retracting spring; 4th. The head of the push bar and the lug on the draw head bevelled; 5th. The push bar and the draw head provided with a lug or projection to engage the head of the bar, in combination with the shifting lever; 6th. The push bar arranged independently of the draw head and provided with suitable cushion and retracting springs, in combination with the suspended lever and the two friction pulleys; 7th. The push bar provided with an adjustable set-collar or nut and a cushion spring; 8th. The friction pulley or gear wheel arranged to turn freely on its shaft and provided with a reversible pawl; 9th. The reversible spring pawl provided with a spindle, whereby it may be reversed, and with an index or pointer.

No. 10,761. Machine for Making Cock Eyes of Traces. (Machine à percer les pattes des traits de voitures.)

James Brayley and Charles H. Dempster, (Assignees of Edward L. Brazenor,) Hamilton, Ont., 24th December, 1879, for 5 years.

Claim.—1st. The frame A, bed plate B, grooves C, head slide D, double cam E with curves *o o r r*, nippers K K, holder G, eccentric *t* with cams *i j* on each side, respectively; 2nd. A hinged holder G with levers *h g* and projections *d d*, the latter made to pass through corresponding openings in the plate B while the formers F F and nippers K K, operated by a cam E, form and complete a cock-eye around said projections; 3rd. The peculiar form of the neck formers F F pivoted to the bed plate, and having the projections *g*, in the form shown, with rounded points and a shoulder, the said projections operating through openings *b b* in the bed plate B and moved by a cam E.

No. 10,762. Improvements on Head Rests. (Perfectionnements aux appui-têtes.)

Hugh McConnell, (Assignee of Warren B. Taylor), Cleveland, Ohio, U. S., 24th December, 1879, for 5 years.

Claim.—1st. The combination, with two clamping heads provided with depending bow jaws and a horizontal adjusting screw which engages with both said heads, of a vertically sliding support connected with one clamping head, and a head frame connected to said support, together with guide rods secured to the front clamping head, and on which the rear clamping head has sliding movement; 2nd. The combination, with two clamping heads provided with depending jaws, of a horizontal screw engaging with both said heads and angular arms pivoted to one clamping head, respectively, on opposite sides of said screw; 3rd. The combination, with two clamping heads provided with depending jaws and a screw engaging with both said heads, of a vertically adjustable support connected to one clamping head, a cross bar pivoted to the upper extremity of said support, and rods hinged respectively to opposite sides of said cross bar; 4th. The combination, with a

vertically adjustable support and a cross bar pivoted thereto, of side rods hinged to said cross bar, and a pad provided with sockets in which side rods fit; 5th. The combination, with the clamping heads provided with depending jaws and guide rods, which maintain the latter in relative position, of arms hinged to one clamping head, a vertically adjustable support connected to the other clamping head, and a head frame pivoted to the upper extremity of said support; 6th. A head rest so constructed and adapted as to permit of lateral adjustment of the head; 7th. A head rest so constructed and adapted as to permit of vertical adjustment of the head, at will, without manipulating the device; 8th. A cushion constructed in one piece and adapted to extend over the whole length of the rest, forming a rest for the head.

No. 10,763. Improvements in Sewing Machines. (Perfectionnements aux machines à coudre.)

Richard M. Wanser (Assignee of Thomas D. Wanser), Hamilton, Ont., 24th December, 1879, for 5 years.

Claim.—1st. In a shuttle sewing machine having the movement of the shuttle to traverse to the motion of the feed device, the pin joint *c* in the connection between the eccentric *b* and the bell crank *a*; 2nd. The adjustable way *p* in the sliding block of the feeding device; 3rd. In a shuttle sewing machine, the combination of the joint *c*, the adjustable way *p* connected with the eccentric *g*, connecting feed bar *h*, swivels *s t* with the feed bar *i*; 4th. A positive motion feed made by the combination of the feed bar *h*, swivel *s* attached to said bar, the swivel *t*, the feed frame *f* with spring *u*, and the eccentric *g* and rod *d*; 5th. In combination with the feed bar *h* of a sewing machine, the gib *u*, the same being placed under the swivel bar *s* and made to slide in the groove formed by the horizontal stationary bar *s*; 6th. The combination, with the horizontal feed bar *h* and the upright connecting rod *g*, of the ball and socket joint *r*, at their junction; 7th. The wear of the shuttle race taken up by means of the screws *K L* in the studs *J J*.

No. 10,764. Improvements in Pads for Carpets. (Perfectionnements aux matelas à tapisserie.)

Herbert M. Small, Baldwinville, Mass., U. S., 24th December, 1879, for 5 years.

Claim.—1st. As an improved manufacture, a carpet pad composed of a series of fibrous paddings and three layers of sheet material or paper, and having the intermediate layer fixed or cemented to the other or outer layers, at intervals, so as to form separate pockets or receptacles for receiving the paddings; 2nd. A carpet pad padding holder composed of the three layers of paper or sheet material, and having the intermediate layer connected, at intervals, or alternately, to the outer or other layers, so as to form between them a series of separate pockets or receptacles for holding paddings; 3rd. A carpet pad padding holder consisting of a flat tubular case of paper or sheet material and an interposed sheet of like material connected or cemented, at intervals, alternately to opposite sides of the said case; 4th. A series of fibrous paddings and three layers of sheet material or paper, and not only having the intermediate layer fixed or cemented to the other or outer layers, at intervals, so as to form separate pockets or receptacles for holding the paddings, but such padding secured lengthwise to its pocket by a narrow layer of cement.

No. 10,765. Improvements in Rail'y Brakes. (Perfectionnements aux freins des chemins de fer.)

Carl F. Ston, William Studer, Montreal, and Phillip McCrae, Waterloo, Que., 24th December, 1879, for 5 years.

Claim.—1st. In a continuous railway brake, the combination of the following elements, viz: a frame pivoted to the underside of the car or tender, raised and lowered at will and carrying a shaft on which is wound a chain drawing, through a lever, on a continuous line of rods connected with the brake levers and operating same, said shaft being furnished with frictional surfaces intermeshing with like frictional surfaces formed on one of the axles, and when brought into contact therewith receiving rotary motion therefrom; 2nd. The combination of the frame C, screw rod E working in bushing F, shaft D with surfaces *D²* and *A²* on axle A; 3rd. The combination, with the several sections of rods, of the shoulders L.