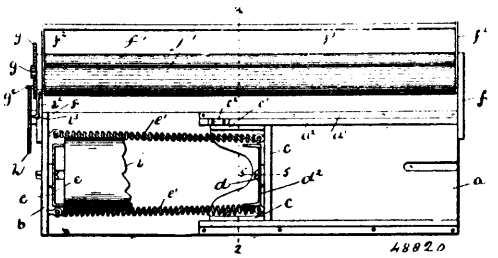
described. 3rd. An electric railway provided with a conduit composed of sections having switch boxes connected thereto by laterally extending necks, in combination with supports having extensions forming the bottoms of the switch boxes, substantially as described. 4th. In an electric railway, the combination with a closed conduit provided with main and supply conductors, of switch boxes arranged alternately on opposite sides of the conduit and provided with switching mechanism for coupling the main conductor with sections of the working conductor, and two series of electro-magnets, on opposite sides of a motor car, in line with the switch boxes, for operating the switches therein by magnetic attraction, substantially as described.

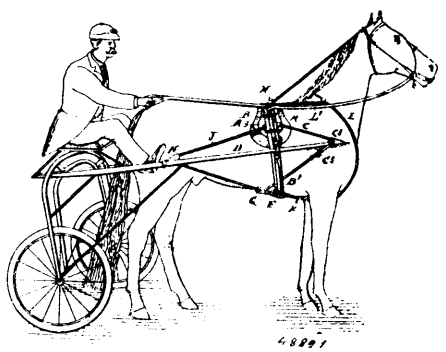
No. 48,820. Device for Displaying and Measuring Goods. (*Appareil pour étaler et mesurer les marchandises.*)



Henry Minister, Zaleski, Ohio, U.S.A., 2nd May, 1895; 6 years.

Claim.—1st. In a goods displaying and measuring device the combination with the base and framework, an angular guide piece on each side of said base and a fixed standard rising from the base, of a travelling standard also rising therefrom, bearing wheels journalled on said travelling standard and running within said guide strips, claws or clamps journalled in said fixed and travelling standards and springs connecting said standards, substantially as and for the purpose specified. 2nd. In a goods displaying and measuring device, the combination with a base and framework, of a fixed and a movable standard rising from said base, an adjustable connection between said standards, clamps or claws journalled on the inner faces of the standards, a roller journalled in said framework, a frame consisting of the arms f^2, and connecting rod f^3, a pressure roller f^4 journalled therein, a jointed connection between said roller carrying frame, and the main frame of the device by means of which said pressure roller is normally in contact with said roller f^1, a pinion on the outer projecting end of the roller f^1, a gear-wheel gearing with said pinion, a pin projecting from said gear-wheel, and a registering wheel having numbered teeth with which said pin is adapted to engage at each revolution of the gear-wheel, substantially as specified.

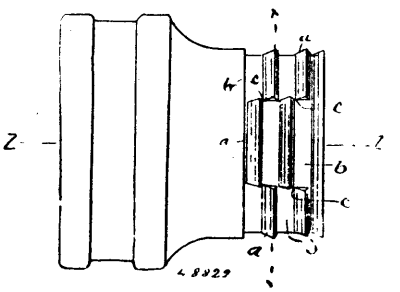
No. 48,821. Harness. (*Harnais.*)



Mortimer L. Knowles, Detroit, Michigan, U.S.A., 2nd May, 1895; 6 years.

Claim.—1st. In a harness, the combination of a saddle pad A, a back strap B, and the traces each engaged directly to the back pad A independently of said back straps, whereby the strain of the traces will be communicated directly to said back saddle pad, substantially as set forth. 2nd. In a harness, the combination of the back saddle pad A, the back strap B, the girth B^1, the traces F engaged directly to said back saddle pad, and spring pulleys over which said traces are led intermediate their ends, substantially as set forth. 3rd. In a harness, the combination of a back saddle pad A, formed with a soft pad A^1, and leather covering A^2, draught straps A^3, A^3 secured to the covering A^2 toward the extremities thereof, holdback straps C, C^1 secured to the forward ends of said draught straps, traces J, J secured to the rear ends of said draught straps, a back pad B, additional straps permanently secured to said covering engaging said back pad upon the saddle pad, and a girth B^1, the hold-back straps and traces being secured directly to the back saddle pad A independent of the back pad B, substantially as and in the manner set forth. 4th. In a harness, the combination of the back saddle pad A, the back strap B, the girth B^1, the hold-back straps engaged with said back saddle pad, traces engaged directly with said back saddle pad independently of said back strap, and the safety girth, said hold-back straps provided with sheathes at their forward ends, substantially as set forth. 5th. In a harness, the combination of the back pad A, the traces J, spring pulleys H, and the hip pad N, substantially as set forth. 6th. In a harness, the combination of the back pad A, the traces J, spring pulleys H, and the hip pad N, said hip pad provided with a spring N^2 to engage the ends of the traces, substantially as set forth.

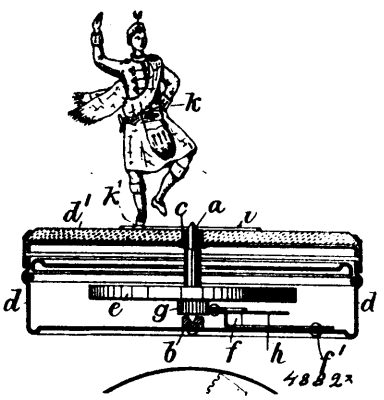
No. 48,822. Pipe. (*Tuyau.*)



Hubert Root Ives, Montreal, Quebec, Canada, 2nd May, 1895; 6 years.

Claim.—1st. A pipe formed with alternate sections of peripheral grooves and ridges in or upon its surface, for the purpose set forth. 2nd. A pipe formed with alternate discontinuous peripheral grooves and ridges in or upon its surface, for the purpose set forth. 3rd. A pipe having in or upon its surfaces peripheral grooves and ridges and communicating channels between the grooves through the ridges, for the purpose set forth. 4th. A pipe formed with sections or peripheral ridges and dividing spaces between each section arranged in lines encircling the pipe and the dividing spaces of one line being opposite or adjacent to the ridge section of another line, for the purpose set forth. 5th. A pipe formed with sections of peripheral ridges of triangular cross-section and dividing spaces between each section arranged in lines encircling the pipe and the dividing spaces of one line being opposite or adjacent to the ridge section of another line, for the purpose set forth.

No. 48,823. Mechanical Toy. (*Jouet mécanique.*)



Abraham Martin, Richmond, England, 2nd May, 1895; 6 years.

Claim.—1st. In a mechanical toy, the combination, with a magnetic or magnetized spindle mounted to rotate in bearings of an armature or driven part adapted to be held by magnetic attraction in driving contact with the spindle so as to receive motion therefrom, as specified. 2nd. In a mechanical toy, the combination, with a magnetic or magnetized spindle mounted to rotate in bearings, of an armature or driven part adapted to be held by magnetic attraction in driving contact with the spindle so as to receive motion therefrom, a support for the armature or driven part through which the spindle projects, and a figure or object carried by the armature or driven part to which eccentric movements, depending on the form of the armature, are imparted by the revolution of the spindle, as specified. 3rd. In a mechanical toy, a magnetic or magnetized spindle mounted vertically to revolve in bearings and provided with a fly-wheel, in combination with a quadrant rack and pinion gear for imparting motion to the spindle and fly wheel, as and for the purpose specified. 4th. In a mechanical toy, the combination of one or more vertical magnetic spindles adapted to actuate by driving contact armatures carrying figures or objects to which eccentric motions are to be imparted, as described, with a spring motor barrel, as specified.