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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. 19,870. Manufacture of Boots and Shoes. (*Fabrication des Chaussures.*)

Thomas Laycock, Northampton, Eng., 1st August, 1884; 5 years.

Claim.—1st. The manufacture and use of a water-tight boot or shoe fastening at the side or otherwise, to fasten with eyelets, in the manner described, and the quarter of which overlap one another and are provided with a folding gore or tongue, substantially as hereinbefore described and represented in Figs. 1 to 4 of the accompanying drawing. 2nd. The manufacture and use of the modified arrangement of boot or shoe, hereinbefore described and represented in Figs. 5 to 8 of the accompanying drawing. 3rd. The method, herein described, of lasting boots and shoes by driving the tacks, tingles or the like in an oblique direction through the upper into the insole, or with tingles or tacks of a sufficient length to last the boot or shoe, but without coming through, substantially in the manner and for the purposes hereinbefore described and illustrated in Fig. 9 of the accompanying drawing. 4th. In a boot or shoe, I claim the employment of an insole formed of more than one thickness, and secured to the boot or shoe by the various methods herein described and illustrated by reference to Figs. 10 to 20 of the accompanying drawing. 5th. The method, herein described, of securing the middle sole or welt and upper to the insole or insoles of boots and shoes, substantially as described and represented in Figs. 10, 11 and 12 of the accompanying drawing. 6th. The method of securing the middle sole or welt and upper to the insole or insoles of boots and shoes, substantially in the manner and for the purposes hereinbefore described and represented in Figs. 13, 14 and 15 of the accompanying drawing. 7th. The method of manufacturing boots and shoes, substantially as and for the purposes hereinbefore described and represented in Fig. 16 of the accompanying drawing. 8th. The method of manufacturing boots and shoes, as hereinbefore described, by the employment of an insole of more than one thickness, and after lasting taking out the upper thickness and clinching the lasting tacks, tingles or the like, and then replacing the upper thickness (or substituting a similar one) of the insole, substantially in the manner and for the purposes hereinbefore described and represented in Figs. 17 and 18 of the accompanying drawing. 9th. The method of improving in the manufacture of boots and shoes, consisting in cutting out, or removing a portion of the middle sole, and after the middle sole has been screwed, sewn, pegged or rivetted, taking out the lasting tacks or the like, and then replacing the part cut, substantially as hereinbefore described. 10th. In the manufacture of boots or shoes, the cutting away of the middle sole so as to leave a welt only, the cut-away part being filled in with felt or other suitable material, substantially in the manner and for the purposes hereinbefore described and represented in Figs. 19 and 20 of the accompanying drawing. 11th. The method, herein described, of fastening the heel or seat of a boot or shoe to the sole by means of screws, in the manner and for the purposes hereinbefore described.

No. 19,871. Tricycle and like Velocipedes.

(*Tri-voie et Velocipèdes semblables.*)

Edward R. Settle, Coventry, Eng., 1st August, 1884; 5 years.

Claim.—In tricycles or like velocipedes, having parallel or main driving wheels, the combination of a worm or worms carried by one wheel, with a worm-wheel carried by a driving-shaft to which the other wheel is fixed (for the alternative arrangement of worm or worms

carried by the driving-shaft, with a worm-wheel carried by the loose driving-wheel) so that both wheels shall run at the same speed when the velocipede is travelling straight (the said gear forming a lock), and, when travelling in a curve or circle, the said worm-gear allowing the loose wheel to run at different speed to the fixed wheel, substantially as described.

No. 19,872. Automatic Door Closer.

(*Fermeture Automatique de Porte.*)

William A. Holwell, Quebec, Que., 1st August, 1884; 5 years.

Claim.—1st. In a device for closing doors, &c., a suitably supported shaft for bar, in combination with a weighted travelling carrier, working on said shaft and connecting with the door, as set forth. 2nd. In a device for closing doors, &c., a suitably supported shaft or bar, in combination with a carrier travelling on said shaft and connecting with the door, and a weighted lever pivoted to the carrier, as set forth. 3rd. In a device for closing doors, a suitably supported shaft or bar, in combination with a carrier travelling on the shaft and connecting with the door, and a weighted lever pivoted to the carrier and provided with a roller adapted to enter a recess *m* in the shaft, as set forth. 4th. In a device for closing doors, a suitably supported shaft or bar provided with a bevelled or chamfered recess *m*, in combination with a carrier travelling in the shaft and provided with rollers *p*, a cord or chain connecting the carrier with the door, a lever pivoted to the carrier and provided at one end with a roller and an adjustable weight, as set forth. 5th. In a device for closing doors, the bar or shaft fitted at its upper end in a block B and provided with a bevelled or chamfered recess *m*, in combination with a carrier encompassing and travelling on the shaft, a cord connecting the carrier with the door, a lever pivoted to an extension of the carrier and provided at one end with a roller A, and an adjustable weight connected to the lever, as set forth. 6th. In a device for closing doors, a suitably supported shaft or bar, in combination with a carrier travelling on the same and connected with the door, a lever pivoted to the carrier, a sliding sleeve arranged to be adjusted on said lever by means of suitable binding screws, and a weight connected to the sleeve, as set forth.

No. 19,873. Hay Carrier. (*Monte-Foin.*)

Wentworth G. Ricker, Rochester, N. Y., U. S., 1st August, 1884; 5 years.

Claim.—1st. The combination, with the travelling carriage and rope of a hay-carrier, of the pulleys C, C₁ and the binding pulley D, substantially as and for the purposes set forth. 2nd. The combination, with the travelling carriage and rope of a hay-carrier, of the pulleys C, C₁, and a movable clamping device located between the pulleys and connected to the rope, substantially as and for the purposes set forth. 3rd. The combination, with the travelling carriage and rope of a hay-carrier, of the pulleys C, C₁, a movable clamping device located between the pulleys and connected with the rope and the adjusting lever F, substantially as and for the purposes set forth. 4th. The combination, with the travelling carriage and rope of a hay-carrier, of the pulley C provided with suitable ratchet-teeth, pulley C₁, binding pulley D and dog G, substantially as and for the purposes set forth. 5th. The combination, with the travelling carriage and rope of a hay-carrier, of the pulleys C, C₁ provided with suitable ratchet teeth, intermediate clamping device D and dogs G, G₁, substantially as and for the purposes set forth. 6th. The combination, with the travelling carriage of a hay-carrier, of the track-beam A and movable catch-pin *p*, substantially as described. 7th. The combination, with the draft-ropes E provided with ferrule *r* having shank *a* and button *c*₁, of the detachable hook J having recess *f* and slot *h*₁, substantially as and for the purposes set forth. 8th. The combination, with the draft-ropes E, of the detachable hook J provided with ring *c*₁, substantially as and for the purposes set forth. 9th. The combination, with the travelling carriage of a hay-carrier, of the pulleys C, C₁, binding pulley D and draft-ropes E, each end of said draft-ropes being provided with devices for detachably connecting it with the binding pulley thereby adapting the carrier to travel in either direction, substantially as and for the purposes set forth. 10th. The combination, with the return or other ropes of a hay-carrier, of the removable track-hook K provided with ring *i*, substantially as and for the purposes set forth. 11th. The combination, with the tra-