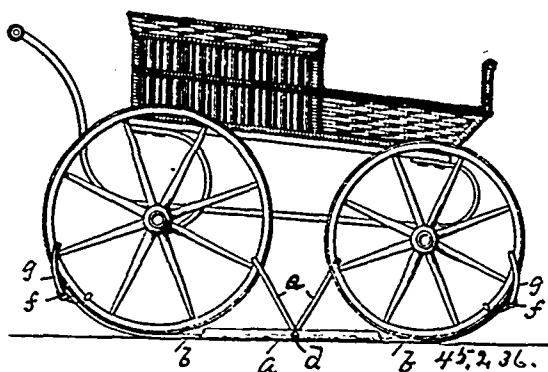


2nd. The improved method of manufacturing knitted riding breeches, hose and similar articles, substantially as herein described, the same consisting in making the pieces a^1 and a^2 , separately arranging them upon the needles of a knitting frame and knitting on the right and left leg-pieces, then stitching the edges of the parts so formed and thereby completing the article, the insides of the leg portions and the seat and back being suitably strengthened and having no seams. 3rd. In knitted riding breeches, hose and similar articles, forming an enlarged part or gusset such as r , substantially as herein described. 4th. In the manufacture of knitted riding breeches, hose and similar articles, the employment of narrowing or reducing apparatus, substantially as herein described, the same comprising a pair of needle-carriers furnished with tappets and capable of adjustment upon a longitudinal rail carrying levers for actuating the tappets. 5th. In apparatus for narrowing or reducing in the manufacture of hose or other knitted goods, the combination with the needle-carriers a^1 , of the rail b^1 , the shaft k^1 , the taper levers f^1 , and the tappets c^1 , substantially as and for the purposes herein set forth. 6th. In apparatus for narrowing or reducing in the manufacture of hose or other knitted goods, the combination with the needle-carriers a^1 , of springs such as h^1 , the projections i^1 , on the needle-carriers and the adjustable stops j^1 , substantially as herein set forth.

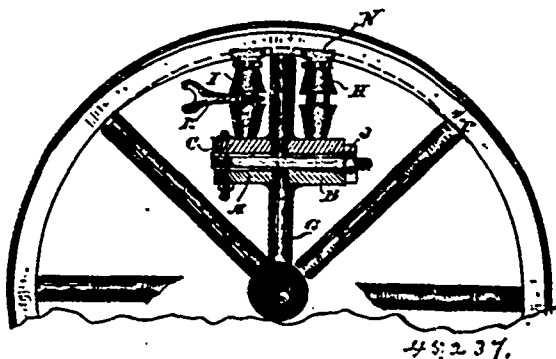
No. 45,236. Runner for Vehicles.
(*Patin de voitures.*)



Gideon Madeau, Marinette, Wisconsin, U.S.A., 5th February, 1894; 6 years.

Claim.—1st. A runner attachment for baby carriages, or other light vehicles, consisting of a piece of resilient material detachably connected to the wheels, and hooks for locking said wheels, substantially as and for the purposes described. 2nd. A runner attachment for baby carriages or other light vehicles, comprising a plate of resilient material broadened and rounded in the centre as at a , hooks connecting the central portion of the wheels, and slips securing the outer ends to the rims of the wheels, substantially as and for the purposes described. 3rd. A runner attachment for baby carriages or other light vehicles, comprising a plate of resilient material curved up in the centre as at a , and having narrow ends b , bent over as at f , a rivet e , across said curved central portion, hooks c , secured to said rivet and adapted to engage in the wheels, and spring clips g , adapted to engage the rims of the wheels, substantially as and for the purposes described.

No. 45,237. Tire Tightener. (*Lien de jante.*)

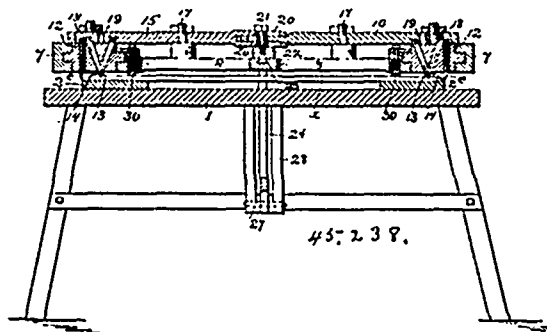


William Henry Kirby and John Plews, both of Vancouver, British Columbia, Canada, 5th February, 1894; 6 years.

Claim.—1st. The combination of clamps A and B, with turn-buckles H and I, right and left hand screws L and M, substantially

as and for the purposes hereinbefore set forth. 2nd. The combination of adjustable bolt C, and swing bolt J, with clamps A and B, substantially as and for the purposes hereinbefore set forth. 3rd. The combination of turnbuckles H and I, chair N with washer stamps O, substantially as and for the purpose hereinbefore set forth.

No. 45,238. Machine for Making Barrels and Casks.
(*Machine pour la fabrication de barils et tonneaux.*)



The Campbell Barrel Machine Company, assignee of Henry Campbell, all of Baltimore, Maryland, U.S.A., 5th February, 1894; 6 years.

Claim.—1st. In a crozing machine, the combination with the crozing devices, of a presser for flattening the staves, substantially as set forth. 2nd. The combination of a crozing tool, a guide for the same movable towards and from the stave, and a presser carried by the guide and adapted to flatten the stave, substantially as set forth. 3rd. The combination of a crozing tool, a guide for the same a presser carried by said guide, and means for permitting the motion of the guide towards the presser, substantially as set forth. 4th. The combination of a frame movable towards and from the stave, and having guides, a plurality of crozing tools mounted in said guides, and mechanism carried by the frame for simultaneously reciprocating said tools, substantially as set forth. 5th. The combination of the guides 7, the connecting frame 8, the crozing tools in said guide, the levers 15, 16, the slide 22, the guide 23, and the lever 24, and means for depressing the guides 7, substantially as set forth. 6th. In a crozing machine, the combination of a shaft, crozing cutters for each end of the stave actuated by said shaft, and clamps for the ends of the stave, substantially as set forth. 7th. In a crozing machine, the combination of the heads having rests or supports for the stave, radially movable clamp adapted to hold the stave against such rests, a shaft, and crozing cutters carried thereby, substantially as set forth. 8th. In a crozing machine the combination of plates or heads having rests for the convex ends of the stave, clamps radially movable to secure said ends, a shaft having crozing cutters, and means for operating said clamps and shaft, substantially as set forth. 9th. In a crozing machine the combination of heads or plates having rests to prevent the outward movement of the stave, stops for the rear edge of the stave, a shaft having crozing cutters operating parallel with said heads, and adjusting devices for said stops, substantially as set forth. 10th. The combination of the heads, a shaft carrying crozing cutters and mounted in said heads, radially movable slides, clamps pivotally mounted on the slides, and rests for preventing the outward movement of the stave, substantially as set forth. 11th. The combination of the shaft carrying crozing cutters, clamps for the staves, and an oscillating part concentric with said shaft and adapted to operate said clamps, substantially as set forth. 12th. The combination with the shaft 37, of means for holding the stave, and the arms 50 of said shaft and carrying crozing cutters, substantially as set forth. 13th. The combination with the shaft 37, of means for holding the stave, and the arms 50 on said shaft and carrying crozing cutters 54, 55, the howeling cutter 56, the cutter 58 for the climb, and the cutter 59 for the chamber, substantially as set forth. 14th. The combination of the shaft carrying crozing cutters, clamps for the stave, and an oscillating part concentric with said shaft and adapted to operate said clamps and bearings for supporting said oscillatory part independently of the shaft, substantially as set forth. 15th. In a crozing machine the combination of heads or plate having rests to prevent the outward movement of the stave, stops of relatively soft material for the rear edge of the stave, and crozing cutters operating parallel with said heads, substantially as set forth. 16th. In the method of making barrels, performing the crozing operation upon the staves individually or before said staves are combined in the barrel, and making the crozes of variable depths according to the varying thickness of the staves, substantially as set forth. 17th. In the method of making barrels, performing the crozing operation upon the staves individually and before they are combined in the barrel by first flattening the staves and then forming the crozes in a straight line across the same of variable depth according to the varying thicknesses of the staves, substantially as set forth.