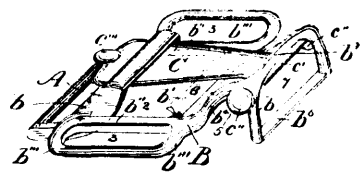
No. 43,492. Trace Buckle. (*Boucle de trait.*)



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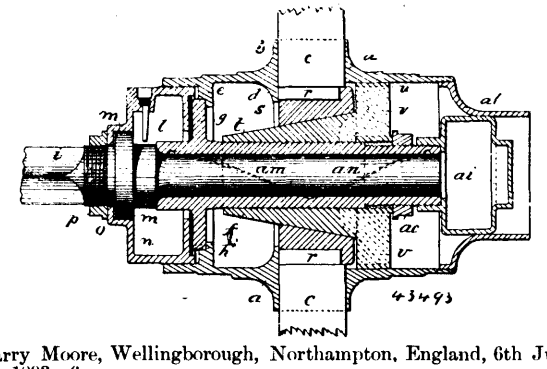
George Victor Martin, Whitby, Ontario, Canada, 5th July, 1893; 6 years.

Claim.—1st. In a trace buckle, the combination of the draw link A, frame B having the cross bars b and b^1, side bars b^{11} to form a rectangular opening 2, the oblong eyes 3, the conical slots 5, and openings 6 and 7 formed by upwardly curved arms and cross bars, and the tongue plate C having the tongue c, and arm c^1 with heads c^{11}, substantially as set forth. 2nd. In a trace buckle, a loose tongue plate C, having on its lower surface a tongue c, adapted to enter the trace, and at the other end the pintles c^1 with heads c^{11}, adapted to be held in a slot, substantially as set forth. 3rd. In a trace buckle, an integral frame consisting of side bars b^{11}, b^4 and b^5, connected by cross bars b, b^1, b^6 and b^7, and forming the openings 2, 6 and 7, and the slots 5, and with the continuations b^{111} formings the loops 3, substantially as set forth.

No. 43,493. Wheel for Road Vehicles.
(*Roue de voiture routière.*)



Harry Moore, Wellingborough, Northampton, England, 6th July, 1893; 6 years.

Claim.—1st. In a wheel, the combination with the nave, the spokes passing through mortices in the nave and the axle box, of a series of wedge shaped shoes adapted to fit on the ends of the spokes, and of a cone adapted to be moved along the axle box and act on the inner surfaces of the shoes to force them outwards radially, substantially as set forth. 2nd. In a wheel, the combination with the nave, the spokes passing through mortices in the nave and the screw threaded axle box, of a series of wedge shaped shoes adapted to fit on the ends of the spokes, and of a cone adapted to be screwed along the axle box and act on the wedge surface of the shoes to force them radially outwards, substantially as set forth. 3rd. In a wheel, the combination with the hub, the axle and collar on the axle, of a box adapted to bear against the back of and be retained by the collar, and to be secured to the said hub, substantially as set forth. 4th. In a wheel, the combination with the hub, the axle and the collar on the axle, of a washer plate adapted to bear on the back of the collar, and of screwed bolts or studs secured in the back end of the hub and adapted to secure the hub and washer plate together, substantially as set forth. 5th. An axle box provided with right and left handed spiral grooves, substantially as set forth for the purpose specified. 6th. A tire for a wheel rolled or cast endless without weld or joint, substantially as set forth.

No. 43,494. Nail. (*Clou.*)

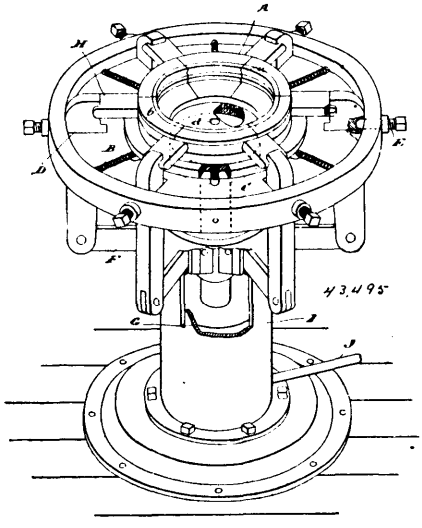
Eben Perkins and James Pender, both of St. John, New Brunswick, Canada, 6th July, 1893; 6 years.

Claim.—1st. As an improved article of manufacture, a nail coated with asphalt, tar, rosin, shellac or gum. 2nd. A nail coated with asphalt, tar, rosin, shellac or other similar gum in a solvent state and dried, whereby the surface will be slightly viscous and protected from oxidation, as set forth.

No. 43,495. Machine for Heating Water Boilers and other Cylindrical Vessels. (*Machine pour entêter les chaudières et autres vaisseaux cylindriques.*)

James Morrison, assignee of Walter Scott Shipe, both of Toronto, Ontario, Canada, 6th July, 1893; 6 years.

Claim.—1st. A ring, made in segments and connected to mechanism, arranged to force the said segments together to reduce the size of the ring and compress the head on to the cylinder, substantially as and for the purpose specified. 2nd. A ring made in segments



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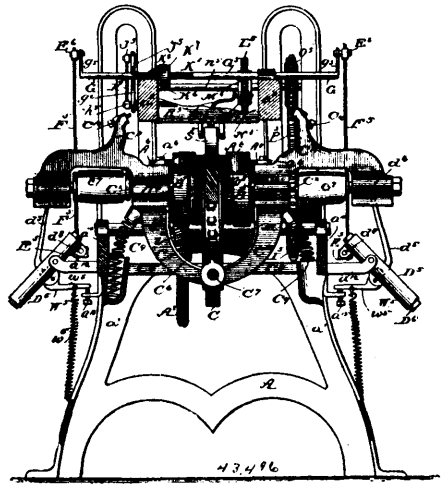
the ends of each segment having fingers formed on them to interlock with the corresponding fingers formed on the adjacent segments, in combination, with mechanism arranged to force the said segments together to reduce the size of the ring and compress the head on to the cylinder, substantially as and for the purpose specified. 3rd. A ring A, made in segments and supported on the table C, the said segments being held apart by the springs B, the arms or levers D, pivoted each on the end of a set screw E, and connected by the block H, to the ring A, in combination with the link F, pivoted on the end of the arm or lever D, and connected to the piston G, substantially as and for the purpose specified. 4th. A ring A, made in segments, each segment having fingers a, formed on its ends and supported on the table C, the said segments being held apart by the springs B, the arms or levers D, pivoted each on the end of a set screw E, and connected by the block H, to the ring A, in combination with the link F, pivoted on the end of the arm or lever D, and connected to the double ended piston G, fitted into the cylinder, having an inlet pipe J, at one end and the hole d, at its other end, substantially as and for the purpose specified.

No. 43,496. Stave Trimming and Jointing Machine.
(*Machine pour dresser et joindre les douves.*)



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William James Wright, Cooperstown, assignee of James McGavin McKerrow and David Lewis Trax, both of Oil City, all in Pennsylvania, U.S.A., 6th July, 1893; 18 years.

Claim.—1st. In a stave trimming and jointing machine, in combination, the main frame, a transverse guide bar mounted thereon, the laterally movable boxes held on said guide bar, mechanism for adjusting such boxes towards or from each other, the laterally movable saws, and connection between such boxes and the saws, whereby such saws are set by the movement of the boxes, substantially as and for the purpose described. 2nd. In a stave trimming and jointing machine, the combination with the main frame, and the laterally adjustable trimmer, saws mounted thereon, of the