

The Canadian Patent Office

RECORD

Vol. XVIII.—No. 10.

OCTOBER, 1890.

{ Price in Canada \$2.50 per An.
United States - \$2.50 "

INVENTIONS PATENTED.

NOTE.—Patents are granted for 15 years. The term of years for which the fee has been paid, is given after the date of the patent.

No. 35,080. Car Coupling. (*Attelage de chars.*)

Charles Burnee, Rowena, New Brunswick, Canada, and Charles L. Tilley, Waterville, New Brunswick, Canada, 1st October, 1890; 5 years.

Claim.—1st. In a car coupling, the combination, with the draw-head, the weight block pivoted therein and having a notch in its front end registering with a notch in the draw-head, and the pin-supporting catch pivotally mounted within said weight-block, of a pin seated in said registering notches, and normally resting upon said catch, substantially as described. 2nd. In a car-coupling, the combination, with the draw-head, the weight block pivoted therein, and having a notch in its front end registering with a notch in the draw-head, the lower front corners of said weight-block being beveled, and the pin-supporting catch pivotally mounted within said weight-block and having its front end also beveled, of a pin seated in said registering notches, and normally resting upon the front end of the catch, the whole operating substantially as described.

No. 35,081. Hot Water Boiler.

(*Calorifère à eau.*)

David Lancaster Dwinell, and Miller Brothers and Toms, all of Montreal, Quebec, Canada, 1st October, 1890; 5 years.

Claim.—1st. In a hot water boiler, or furnace, the combination, with the fire chamber, and a water jacket surrounding same and communicating with the supply or return pipes, of water sections in the form of hollow discs or chambers in communication with said water jacket and having flues for the passage of products of combustion, and central apertured hub portions, forming the point of contact between each section, one or more of such sections having a central diaphragm adapted to compel the passage of the water radially outward from the centre of such section or sections to its or their sides or peripheries, flow pipes leading from the uppermost of such sections, and a suitable shell or casing encircling such sections, as set forth. 2nd. In a hot water boiler, or furnace, the combination, with the fire chamber, and a water jacket surrounding same and communicating with the supply or return pipes, of water sections in communication with said water jacket, and the flow pipes, having portions of greater depth than their edges, so as to secure tapering sides, one or more of such sections being provided with a central diaphragm, adapted to compel the passage of the water radially outward from the centre of such section or sections to its or their sides or peripheries, a suitable shell or casing encircling such sections, and means for holding the whole together, as set forth. 3rd. In a hot water boiler, or furnace, the combination, with the fire chamber, and a water jacket, inlets and outlets, of water sections, the ports of communication between which are located centrally or approximately so, of the entire area of the upper and lower sides of same, diaphragms located in one or more of such sections across the line of such ports of communication, and means for holding the whole together, as set forth. 4th. The combination, with the water sections in contact with each other at central portions only of their upper and lower sides, of a stay passing centrally through the uppermost sections, and having one end secured within the lowermost section, and the other end to the uppermost section, as set forth.

No. 35,082. Combined Bridle and Check.

(*Bridle et rêne combinées.*)

John H. Rafferty, and Michael J. Connery, both of Worcester, Massachusetts, U.S.A., 1st October, 1890; 5 years.

Claim.—1st. A bridle, made with cheek, and face pieces, of each side formed in one continuous strap connected with the crown-strap,

combined with bent or U-shaped divided clasps holding the straps at their lower bends or bights, substantially as herein set forth. 2nd. A bridle, made with the cheek, and face pieces of each side formed in one continuous strap, connected with the crown-strap, combined with U-shaped divided clasps holding the straps at their lower bends or bights, and a bit held to the clasps, substantially as herein set forth. 3rd. A bridle, made with the cheek and face pieces of each side formed in one continuous strap connected at one end to the crown-strap, and extending rearward at the other ends to form a check-rein, combined with clasps engaging the lower bends or bights of the straps, and a bit held to the clasps, substantially as herein set forth. 4th. A bridle, made with the cheek and face pieces of each side formed in one continuous strap connected at one end to the crown-strap, and extending rearward at the other ends to form a check-rein, combined with bent or U-shaped divided clasps holding the straps at their lower bends or bights, and a bit held to the clasps, substantially as herein set forth. 5th. In a combined bridle and check, the cheek and face pieces of each side formed as continuous straps connected at one end to the crown-strap, and extending rearward at the other ends to form a check-rein, clasp devices holding the two straps at their lower bends or bights, a bit held to the clasps, overdraw-check loops and side loops held to the crown-strap, and a detachable clip device adapted to the face straps, substantially as described, whereby the bridle may be adjusted with an overdraw-check or a side check, as set forth. 6th. In a combined bridle and check, the cheek and face pieces of each side formed as continuous straps connected at one end to the crown-strap, and extending rearward at the other ends to form a check-rein, bent or U-shaped divided clasps holding the straps at their lower bends or bights, a bit held to the clasps, overdraw-check loops and side loops held to the crown-strap, and a detachable clip device adapted to the face-straps, substantially as described, whereby the bridle may be adjusted with an overdraw-check or a side check, and the strap-bights may be re-adjusted in the divided clasps to prevent twisting of the straps when the overdraw-check is changed to a side check, as set forth. 7th. The combination, in a bridle and check, of a crown-strap A, throat-latch B, B', two continuous straps C, D, E, and C', D', E', connected to the crown-strap, a check-strap F, connected to the parts E, E', divided clasps H, H', clamping the bights c, c, of the straps C, D, C', D', a bit connected to the clasps, a brow-c, c, and side loops adapted to receive the straps E, E', as a side-check-rein device, substantially as herein set forth. 8th. The combination, in a bridle and check, of a crown-strap A, throat-latch B, B', two continuous straps C, D, E, and C', D', E', connected to the crown-strap, loops K, K, on the crown-strap, receiving the strap E, E', a strap F, connected to the parts E, E', divided clasps H, H', clamping the bights c, c, of the straps C, D, C', D', a detachable clip J, J, held to the face-straps D, D', and a bit held to the clasps H, H, J, substantially as described, for the purposes set forth. 9th. In a substantially as described, for the purposes set forth. 9th. In a bridle, the combination, with a crown-strap and connected continuous straps forming cheek, face, and check straps and doubled-in U-form, bights c, c, substantially as specified, of divided clasps of U-form, placed on said bights, and provided with nuts at their extremities, substantially as herein set forth. 10th. In a bridle, the combination, with a crown-strap and connected continuous straps forming cheek, face, and check straps and doubled-in bights c, c, substantially as specified, of two-part clasps at said bights, provided at their extremities with clamping nuts, and eyes connected to the clasps, bends to receive the bit, substantially as herein set forth. 11th. In a combined bridle and check, the combination, with a crown-strap and connected continuous straps C, D, E, C', D', E', forming cheek, face, and check-straps, and bent or U-shaped divided clasps enclosing the bights c, c, of the straps, of an adjustable and detachable clip on the face-straps, substantially as herein set forth. 12th. In a bridle, the combination, with a crown-strap and connected continuous straps forming cheek, face, and check-straps, and doubled-in bights c, c, substantially as specified, of bent or U-shaped clasps formed with two parts h h, each having an open ring h¹, a shoulder h², and a beveled extremity h³, and detents holding the parts h h together, substantially as herein set forth. 13th. In a bridle, the combination, with a crown-strap and connected continuous straps forming cheek, face, and check straps, and doubled-in bights c, c, substantially as specified, of clasps H, formed with two parts h, h¹, each having an open ring h², an inclined shoulder h³, a beveled extremity h⁴, and screw-threads h⁵, and nuts H², run upon said threads, substantially as herein set forth.