

The Canadian Patent Office

RECORD

Vol. XX.—No. 2.

FEBRUARY, 1892.

Price free by post in Canada and the United States, \$2.00.

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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. 38,174. Hand Rake. (*Râteau à main.*)

Orville M. Knox, Village of Oneida, New York, U.S.A., 1st February, 1892; 5 years.

Claim.—1st. The combination in a rake head having a longitudinal groove in the top of the head and perforations passing through the rake head from the bottom of the groove, of teeth formed from one piece of metal inserted in the perforations, and a retaining strip secured in the groove and securing the teeth, substantially as set forth. 2nd. In a hand rake, the combination therewith of a perforated automatically moveable clearing bar, the rake teeth inserted in the perforations of the bar, a shoe connected with the bar and extending behind the face of the clearing bar and the holders for securing the clearing bar to the head, substantially as set forth. 3rd. In a hand rake, the combination of a rake head having teeth, a perforated clearing bar arranged to receive the teeth and having a portion thereof extending beyond the plane of the bar and curving upwards, acting as a shoe for the clearing bar and adjustable connections between the clearing bar and the head, substantially as set forth. 4th. The combination in a hand rake of a rake head having teeth, a perforated clearing bar, a slotted retaining piece secured to the clearing bar and adjustably secured to the head and having an angular bend back of the clearing bar, which acts as a shoe, substantially as set forth. 5th. In a hand rake, the combination of a rake head having teeth, a perforated clearing bar running on the teeth provided with an attached or integral portion extending beyond the face of the clearing bar, acting as a runner to the clearing bar, and extending upwards to the head and adjustably secured thereto, substantially as set forth. 6th. The combination in a hand rake of a rake head having teeth, an adjustable clearing bar having perforations for receiving the teeth, angular upwardly extending slotted retaining pieces 12, and securing pins thereof fixed in the head, substantially as set forth. 7th. The combination with a rake head and handle of a socket having shoulders adapted to engage the front and top of the head, and perforations therein for receiving screws or rivets in securing the handle to the head, substantially as set forth.

No. 38,175. Whiffletree and Neck Yoke.

(*Palonnier et volée de bout de timon.*)

John Connolly, North Bay, Ontario, Canada, 1st February, 1892; 5 years.

Claim.—The combination in a whiffletree or neck yoke, with the bar A of the brace bar, consisting of the end pieces B passing out through the ends of the bar A, and suitably secured, the eyes b, the central link C secured by the eyes c, to the eyes of the said end pieces and the eye F, substantially as set forth.

No. 38,176. Combined Parlor and Sleeping Car.

(*Char-parloir et char-dortoir combinés.*)

Montgomery H. Throop, Chicago, Illinois, and Edwin Heath, New York, N.Y., U.S.A., 1st February, 1892; 5 years.

Claim.—1st. In a combined sleeping and drawing salon, a frame pivoted to the side of the salon, adapted to swing upward against the side thereof or extend outward therefrom into the salon, and form a frame upon which the mattress of the berth can be placed, in combination with a mattress having bars secured to the ends thereof adapted to fit on the end bars of the pivoted frame, substantially as described. 2nd. A frame consisting of bars pivoted to the side of the salon, such bars having a groove on one side thereof, a bar secured to the outer end of such pivoted bars and extending from one to the other thereof, and legs pivoted to the outer end of such pivoted bars, whereby the frame may be placed against the side of the car or extended horizontally, in combination with a mattress having bars secured to the ends thereof, adapted to fit into the grooves in the pivoted bars and form therewith the frame and mattresses of a berth in such salon, substantially as described. 3rd. In a combined sleeping and drawing salon, a frame consisting of bars pivoted to the side of the salon, such bars having a third bar secured to the outer ends thereof, and extending from the one to the other, and legs pivoted to such frame, whereby the frame may be placed against the side of the salon or extended horizontally, a rotatable ratchet-wheel on the end bars of such frame, such ratchet-wheel having a hole in the center thereof, in combination with a mattress having bars secured to the ends thereof, such mattress bars having squared ends, one of such ends adapted to fit into the square hole of the ratchet-wheel, and the other of such ends adapted to have placed thereover a wrench, whereby when the mattress bars are placed on the horizontal frame the mattress can be drawn taut by the turning of such mattress bars, substantially as described. 4th. In a combined sleeping and drawing salon, a frame pivoted to the side of the salon, adapted to swing upward against the side thereof or extend outward therefrom into the salon, and form a frame upon which the mattress of a berth can be placed, in combination with a mattress having bars secured to the ends thereof, adapted to fit on the end bars of the pivoted frame, pivoted legs upon the end bars of the pivoted frame, and the side rail of the pivoted frame adapted to come against the panel of an upper berth, and form an ornamentation therefor when such pivoted frame is against the side of the salon, substantially as described.

No. 38,177. Propelling Power. (*Appareil à propulsion.*)

Joseph Tait, assignee of Thomas Henry Allen, both of Toronto, Ontario, Canada, 1st February, 1892; 5 years.

Claim.—1st. A shaft suitably journaled, and having a right and a left hand screw formed on it in such a manner that the said screws run one into the other, in combination with a dog engaging with the said screws, and connected to a cross-head deriving a reciprocating motion, substantially as and for the purpose specified. 2nd. A shaft supported in suitable bearings at the bottom of the boat, and having a propeller wheel fixed to its end, which projects through the end of the said boat, and a right and a left hand screw formed on the portion of the shaft within the boat, the said screws connecting together at each end, in combination with a dog formed on the end of the spindle journaled in a suitable cross-head, which derives a reciprocating motion from a rod or handle, substantially as and for the purpose specified.