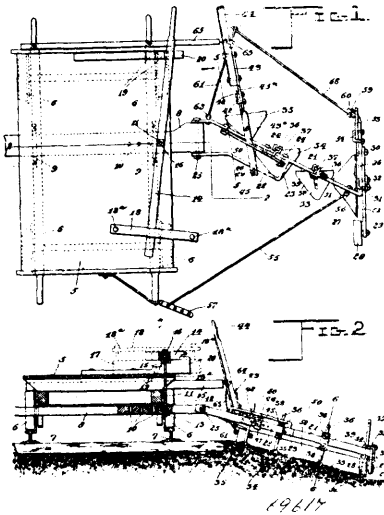


plates movable relative to the knife blades and a suitable spring located between the frame and back of the comb, substantially as and for the purpose described.

No. 69,617. Weed Cutting and Ballast Dressing Apparatus. (*Saceloir et appareil à aligner le ballast.*)



Victor Berford, Tara, Ontario, Canada, 6th December, 1900; 6 years. (Filed 15th November, 1900.)

Claim.—1st. In an apparatus of the class described, the combination with a wheeled frame, of a carrying frame foldably connected thereto, and one or more operating devices mounted on said carrying frame, as and for the purposes set forth. 2nd. In an apparatus of the class described, the combination with a wheeled frame, of a carrier mounted thereon for vertical adjustment, means for vertically adjusting said carrier to pre-determined positions, a carrying frame attached to the carrier and extending outwardly from the wheeled frame, and one or more operating devices mounted on the carrier frame, substantially as described. 3rd. In an apparatus of the class described, the combination with a wheeled frame, of a carrier connected to the wheeled frame for adjustment in a horizontal plane thereon, a carrying frame connected with said carrier to be extended therewith beyond the wheeled frame, as desired, and operating devices mounted on the carrying frame, substantially as and for the purposes described. 4th. In an apparatus of the class described, the combination with a wheeled frame, of a carrier, a carrying frame arranged at an angle to, and connected with said carrier, and a gang of weed cutters attached to the carrying frame in staggered order, substantially as described. 5th. In an apparatus of the class described, the combination with a wheeled frame, and a carrier mounted thereon, of an inclined carrier frame having hinged connection with said carrier, a ground roller on said hinged frame, and one or more operating devices mounted on the carrying frame, substantially as described. 6th. In an apparatus of the class described, the combination with a wheeled frame, of a carrier connected to said frame for adjustment in either a vertical or a horizontal plane, a carrying frame hinged to said carrier for adjustment therewith and equipped with a ground wheel, and one or more operating devices mounted on or connected with said carrying frame substantially as described. 7th. In an apparatus of the class described, the combination with the wheeled frame, and a carrier mounted thereon, of a carrying frame connected with and disposed at an angle to said carrier, and a gang of weeding hoes attached to the carrying frame in staggered order, each weeding hoe having a shank which is clamped in place for adjustment relatively to the carrying frame, substantially as described. 8th. In an apparatus of the class described, the combination with a wheeled frame, of a carrying frame connected thereto, a gang of weeding hoes, certain of which are mounted on said carrying frame, and means substantially as described, whereby the innermost hoe of the gang may be shifted at will relatively to the wheeled frame, as and for the purposes set forth. 9th. In an apparatus of the class described, the combination with a wheeled frame, of a carrying frame connected therewith, an adjustable arm connected to the carrying frame and carrying a weeding hoe, means for shifting said arm and the hoe thereon at will, and other weeding hoes mounted on the carrying frame and occupying a staggered relation to one another and to the shiftable weeding hoe described, as and for the purposes described. 10th. In an apparatus of the class described, the combination with a wheeled frame, of a carrier mounted thereon, means whereby the carrier may be adjusted in vertical or horizontal planes, a carrying frame having a hinged connection with the carrier, and a gang of weeding blades disposed in staggered order on the carrying frame and arranged for one blade to overlay the path of a preceding blade, each blade being carried by a shank which is

adjustably mounted on the frame, or a part thereof, substantially as set forth. 11th. In an apparatus of the class described, the combination with a wheeled frame, and a carrying frame, of an adjustable arm pivoted on said carrying frame and having a lever connected thereto, and a gang of weeding hoes one of which is clamped on the pivoted arm, and the other hoe or hoes clamped to the carrying frame, substantially as set forth. 12th. In an apparatus of the class described, the combination with a wheeled frame, of a carrying frame provided with a hinge, bolt or plate, an arm pivoted to said bolt or plate and extending rearwardly from the frame, a guide bar attached to the frame and embracing said arm, a lever fastened to the arm, and a gang of hoes, certain of which are attached to the frame and with the innermost hoe attached to the pivoted arm, substantially as described. 13th. In an apparatus of the class described, the combination with a wheeled frame, and a carrier thereon, of a frame connected with the carrier and extending outwardly therefrom, a bar connected adjustably to the outer end of said frame and supporting a ground wheel, a stay rod attached to said outwardly extending frame and to the wheeled frame, and one or more operating devices mounted on said outwardly extending frame, as and for the purposes described. 14th. In an apparatus of the class described, the combination with a wheeled frame, and a carrying frame extending outwardly therefrom, of a sod-linecutter mounted on the outer portion of said carrying frame, as and for the purposes described. 15th. In an apparatus of the class described, the combination with a wheeled frame, of a carrying frame extending outwardly therefrom, a sod linecutter angular in cross section and provided with an upstanding shank, and means for clamping said shank adjustably to a part of the carrying frame, as and for the purposes described. 16th. In an apparatus of the class described, the combination with a wheeled frame, of a carrying frame connected therewith and provided with a rearwardly extending frame, an angular sod line cutter arranged for its vertical member to lie substantially parallel with said frame arm, and means whereby the sod line cutter is mounted on said arm of the frame, as set forth. 17th. In an apparatus of the class described, the combination with a wheeled frame, of a carrying frame connected therewith, and an inclined dresser-bar or rake connected with said carrying frame, as set forth. 18th. In an apparatus of the class described, the combination with a wheeled frame, of a carrying frame connected therewith and provided with a ground wheel, a dresser bar or rake arranged at one side of the carrying frame and disposed in a rearwardly and inwardly inclined position with relation to the wheeled frame, and means for connecting the dresser bar or rake to the carrying frame, substantially as described. 19th. In an apparatus of the class described, the combination with a wheeled frame, of a carrying frame connected therewith, a dresser bar or rake arranged at an angle to the wheeled frame and having its outer end connected to the carrying frame, and a stay rod attached to the inner portion of the dresser bar or rake, substantially as described. 20th. In an apparatus of the class described, the combination with a wheeled frame, of a carrier beam, keepers for maintaining said carrier beam in position beneath the wheeled frame, a lever mounted on the wheeled frame and having a rod connected with the carrier beam, means for supporting the lever at predetermined positions and adjusting the carrier beam vertically, an outwardly extending frame connected with the carrier beam, and one or more operating devices mounted on said last named frame, substantially as described. 21th. In an apparatus of the class described, the combination with a wheeled frame, of a lever connected thereto, a carrier beam having a series of perforations, a rod connected to the lever and adjustably attached to the carrier beam, an outwardly extending frame connected to the carrier beam, and one or more operating devices on said outwardly extending frame, substantially as described.

No. 69,618. Reversing Valve. (*Soupape de renversement.*)

Daniel J. Hoisington, John W. Kessinger, and Alfred J. Cress, all of Crescent, Oklahoma, U.S.A., and Daniel S. Perkins, and Charles P. Wilkie, both of Bowman, Oklahoma, aforesaid, 6th December, 1900; 6 years. (Filed 11th October, 1900.)

Claim.—1st. A reversing valve comprising a steam chest having a stationary plate therein provided with exhaust and inlet ports, a reversing plate situated therebelow and having passageways adapted to register with the said passageways of the stationary plate, a power cylinder having ports in communication with the said reversing plate passageways, a valve situated within the steam chest and having its bottom provided with inlet and exhaust ports, and the steam chest having inlet and exhaust passageways in communication respectively and independently with the said exhaust and inlet passageways of the said valve, substantially as described. 2nd. A reversing valve comprising a steam chest having a stationary plate therein provided with inlet and exhaust ports, a power cylinder situated adjacent thereto and having ports in communication with opposite ends thereof, a reversing plate situated between the stationary plate and the said power cylinder ports and having passageways adapted to register with the said ports and with the said passageways in the stationary plate, a valve situated in the steam chest and movable upon the said stationary plate, the said valve having a centrally transversely arranged inlet port in communication with the interior of the steam chest, and with end exhaust passageways, the said steam chest having a laterally extending exhaust passageway in communication with the said exhaust