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INVENTIONS PATENTED.

No. 12,512. Improvements on Reaping Machines. (*Perfectionnements aux moissonneuses.*)

David Maxwell, Paris, Ont., 17th March, 1881; (Re-issue of Patent No. 6,772).

Claim.—1st. In a harvesting machine, a rock shaft located on the main frame in front of the driving wheel and having rigidly connected to it the tongue or pole of the machine, in combination with a lever rigidly connected to the said rock-shafts outside of the driving wheel and convenient to the operator for the purpose of tilting the cutter bar. 2nd. A rock-shaft located on the main frame in front of the driving wheel and rigidly connected to the pole or tongue of the machine, which tongue is situated between the driving wheel and cutters, in combination with oblique braces extending from the pole to the frame on the one side, and to the finger beam on the other. 3rd. The main frame supporting the main driving wheel on both sides thereof and pivoted upon the said driving wheels, revolving axle and rock-shaft located in front of the said wheel and connected to the pole of the machine, in combination with oblique braces extending from the pole to the frame on the one side, and to the finger beam on the other. 4th. A sliding post held in a suitable bearing on the main frame and connected to the finger beam at its lower end, in combination with an inclined brace connecting the top of the post to the finger beam at a point remote from the post. 5th. The rotating axle of the main driving wheel supported by a frame in bearings, on both sides of the said wheel and provided with flexible rake driving mechanism, leading off from the inner end of the said driving axle, in combination with a sliding post held in a suitable bearing on the main frame and connected to the finger beam at its lower end, 6th. The rotating axle of the main driving wheel supported by a frame in bearing, on both sides of said wheel, and connected to the finger beam and rake driving mechanism, in combination with adjustable clutch mechanism arranged to connect or disconnect the main driving wheel and its shaft, for the purpose of simultaneously starting or stopping the motion of the cutters and raking mechanism. 7th. The main frame supporting the driving wheel in suitable bearings on each side of the said wheel, its rotating shaft having on its inner end a flexible joint to connect with the rake driving mechanism, in combination with the finger beam connected to the main frame by a slide connection arranged to allow a horizontal movement of the cutter bar, when it is raised or lowered by a device on the main frame, which frame is pivoted on the rotating shaft of the driving wheel and hinged to the pole or tongue of the machine. 8th. A lever fulcrumed in the main frame and connected to the upper end of the sliding post, for the purpose of adjusting the height of the finger beam. 9th. The rotating axle of the main driving wheel having bearings on each side of said wheel, and supporting the main frame, a flexible coupling leading off from the inner end of the said axle for conveying power to the rake driving mechanism, in combination with a sliding post held in a suitable bearing on the main frame and connected to the finger beam, at its lower end, by an oblique brace extending from its top to the cutter bar. 10th. The rotating axle of the main driving wheel supported in bearings on both sides of the said wheel, the main frame pivoted on said axle, in combination with the pole hinged to the said frame, a tilting lever and a slide connection between the main frame and finger beam, for the purpose of adjusting the cutters. 11th. The moveable pipe box, in combination with the main frame having the pipe box fastened to the said frame and adjustable thereon. 12th. The combination of the main frame, the moveable pipe box fastened thereon, and the set screw for the purpose of adjusting the gear.

No. 12,513. Improvements on Harvester Rakes. (*Perfectionnements aux râteaux des moissonneuses.*)

David Maxwell, Paris, Ont,, 17th March, 1881; (Re-issue of Patent No. 7,508).

Claim.—1st. In a harvesting machine having continuously revolving reeling and raking mechanism, a rolling head held upon an arm hinged to the revolving head or crown wheel, and having an inwardly projecting arm with or without a friction roller, in combination with a downwardly inclined stationary guiding track acting against the projecting arm on the rolling head, for the purpose of imparting a positive downward movement to the rake head, as it approaches the grain side of the table. 2nd. A rolling head mounted upon an arm hinged to the revolving head or crown wheel, and having an inwardly projecting arm with or without a friction roller, in combination with a gate hinged to the guiding track at an opening made therein on the grain side of the machine, for the purpose of imparting a positive rolling movement to the rake head when the rake is to be used for reeling only. 3rd. A rolling head mounted upon an arm hinged on the revolving head or crown wheel, in combination with a spring for turning the rolling rake head at about right angles to the hinge of the rake arm and steadying it in that position, driving that part of the circuit of the revolution of the reeling and raking mechanism, where it is not governed by other means. 4th. A rolling head mounted upon an arm hinged on the revolving head, or crown wheel, and having an inwardly projecting arm with or without a friction roller, in combination with a heel or projection on the gate hinged to the stationary guiding track, for opening the said gate, when the rake passes over the table in the act of raking. 5th. A rolling head mounted upon an arm hinged on the revolving head, or crown wheel, and having an inwardly projecting arm with or without a friction roller, in combination with an inclined lug projecting below the horizontal track over the grain delivery side of the table, for the purpose of turning the rake teeth back at the point when they leave the gavel being delivered. 6th. A rolling head mounted upon an arm hinged on the revolving head or crown wheel, and having an inwardly projecting arm with or without a friction roller, a stationary guiding track having a pivoted gate sustained in a horizontal position by a spring, in combination with a latch for holding the gate when open, and removable therefrom by any suitable device under the control of the driver. 7th. A rolling head mounted upon an arm hinged on the revolving head, or crown wheel, and having an inwardly projecting arm with or without a friction roller, a stationary guiding track, in combination with an upper cam E, for guiding the arm when the rake is reeling.

No. 12,514. Improvements on Cheese Boxes. (*Perfectionnements aux boîtes à fromage.*)

Arthur W. Covell, Lombardy, Ont., 17th March, 1881; for 5 years.

Claim.—As an improved article of manufacture, in a cheese box having sides C D of uniform width, the outer side subdivided and nailed to the heads A B and telescoping over the inner side C, whereby a double sided box is constructed as set forth.

No. 12,515. Improvements on Feed Troughs for Stock. (*Perfectionnements aux auges à bestiaux.*)

John M. Irwin, Odina, Mo., U.S., 17th March, 1881; for 5 years.

Claim.—1st. The combination of the trough A, posts C C, rails D D, strips E E, tenoned dividing rails F G, base bars B having mortises and recesses H, and the binding strips I. 2nd. A longitudinally divided feed trough provided on each side with a suitable number of stalls or compartments formed by detachable dividing strips.

No. 12,516. Apparatus for Tightening Fence Posts. (*Appareil à serrer les pieux des clôtures.*)

Narcisse Demers, Chambly Basin, Que., 17th March, 1881; for 5 years.

Resumé.—Dans l'appareil à serre tel que constitué, et composé de la serre A, cadre C B, vis à manivelle D, vis à poignée E.

No. 12,517. Improvements in House Lamps. (*Perfectionnements aux lampes.*)

John Bassemir, Brooklyn, N.Y., U.S., 17th March, 1881; for 5 years.

Claim.—1st. The combination with the lamp A of the stand B and the thumb and catch screw E. 2nd. The combination of the lamp A provided with the cars D with the base B and arms C.

No. 12,518. Improvements on Pan Forming Machines. (*Perfectionnements aux machines à former les casseroles.*)

William P. Cragin, Edward F. Cragin and Charles G. Chandler, (Assignee of Charles F. Beaman), Chicago, Ill., U. S., 17th March, 1881; for 5 years.