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INVENTIONS PATENTED.

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

No. 21,578. Spittoon-Holder. (*Couvre-Crachoir.*)

Benjamin H. Haskins, Mechanicsville, and Webster C. Moriarty, Saratoga Springs, N. Y., U. S., 4th May, 1885; 5 years.

Claim.—1st. A spittoon-case, or a spittoon provided with a hinged cover encircled with a pedal rail, having provisions for engaging with stationary fulcrum points on said case, and capable of depression at all points of its periphery, in combination with mechanism connecting said pedal rail with said hinged cover, adapted to secure the elevation of said cover by the depression of said pedal rail, the whole being constructed and arranged to operate substantially in the manner described and for the purposes set forth. 2nd. A circumambient pedal rail, having provisions for engaging with fulcrum ledges on the spittoon-case, or spittoon, in combination with mechanism connecting said rail with the cover of the spittoon-case, or spittoon, whereby said case or spittoon will be uncovered by the act of depressing said rail at any point in its periphery, substantially in the manner described and set forth. 3rd. A spittoon-case or holder having a chamber for the reception of the spittoon, a hinged cover adapted to be used as an ottoman, or foot-rest, and provided with mechanism whereby said cover may be raised, so as to open said case for use, by the depression of an encircling foot rail, substantially in the manner described and set forth.

No. 21,579. Machine for Extracting Stumps. (*Machine à arracher les Souches.*)

James Rooney and William Wombwell, Sherbrooke, Que., 4th May, 1885; 5 years.

Claim.—The lever A, with the lever-plate B, and the dogs D₁ and D₂, with the claws F, and the dog C with the chain E, all in combination as and for the purposes hereinbefore described.

No. 21,580. Harvester Binder. (*Moissonneuse-Lieuse.*)

Robert Aldred, Frederick Aldred and Henry S. Blackburn, Glucoe, Ont., 4th May, 1885; 5 years.

Claim.—1st. A grain receptacle H, located substantially in the same plane as the grain table A, having binding mechanism suspended above the grain receptacle, in combination with elevating forks I, arranged to raise the sheaf from the grain receptacle to the binding mechanism, substantially as and for the purpose specified. 2nd. In a harvester binder, in which the grain receptacle is located substantially in the same plane as the grain table of the harvester, the combination of a hinged butter G, arranged to come in contact with the stubble ends of the grain and assist in sweeping it from the grain table on to the grain receptacle, substantially as and for the purpose specified. 3rd. In a harvester binder, in which the grain is swept from the grain table A, by the action of the rakes, the pivoted lever b, having one end in a line with a track of the arm D, and its other end in proximity to a spring plate C, so that, when the rake arm D shall come in contact with the pivoted lever b, the spring plate C shall be pressed downwardly so as to throw clutch mechanism into action, by which the motion of the revolving axle is communicated to gear leading to the binding mechanism. 4th. The bevelled gear c fastened to the horizontal spindle d, which derives motion from the

main driving axle B, the bevelled pinion e meshing with the gear c, and attached to the spindle f, the half clutch g secured, as specified, in the spindle f, and arranged to mesh with its corresponding half clutch h, which revolves freely on the spindle f and is attached to, or forms part of the disc i, in combination with a spring plate c connected to the clutch g, the pivoted lever d and latch E, arranged substantially as and for the purpose specified. 5th. The disc i deriving motion, as specified, a rod F connected at one end to the crank pin on the disc i, and at its other end to a crank formed on the bottom end of the pivoted spindle of the butter G, in combination with a projection j formed on the periphery of the disc i, for the purpose of actuating the latch E, substantially as and for the purpose specified. 6th. A rod K connected at one end to the rod F, and passing freely through a hole in the crank m, which is pivoted upon the frame J, a dog n fixed to the rod K, as specified, in combination with the rod o arranged to connect the crank m to the lever p, pivoted on the frame j, and connected by the rod k to the pivoted rod p, the pivoted end of which presses against the spring plate r, arranged to operate substantially as and for the purpose specified. 7th. A sprocket wheel s revolving freely on the axle B, until actuated by the spring plate r, so as to bring its clutch face into gear with the clutch t, in combination with the chain U arranged to connect the sprocket wheel s to the sprocket wheel v, to which the cam disc L is connected, substantially as and for the purpose specified. 8th. A sliding-plate W held in a groove formed in the side of the frame j, a friction roller z fitted into the cam z, formed on the inside surface of the cam disc L, in combination with the friction roller y, also attached to the sliding-plate W, but passing through a slot made in the pivoted bell-crank M, substantially as and for the purpose specified. 9th. The rod N, connected at one end to the bell-crank M, and its other end to the rock-shaft O on which the arm B is fastened, in combination with the rod Q, arranged to connect the arm P to the lever R, which is attached to the segment gear S, meshing with the segment gear T attached to the shaft U to which the elevating forks I are fastened, substantially as and for the purpose specified. 10th. A sliding plate or head V, working within a vertical groove or guide X, formed in the main frame of the machine, a wrist-pin Q attached to the head V, in combination with the cam z into which the friction roller 2 fits, substantially as and for the purpose specified. 11th. The combination of the rack bar 3 attached to the sliding-plate V and meshing with the segment gear 4 attached to the horizontal shaft 5 to which the needle Y is fastened. 12th. A notched disc 6 keyed to the shaft 5, in combination with an arm 7 fitted loosely on to the said shaft 5, a dog 10 pivoted on the arm 7, and a spiral spring 9 arranged to connect the arm 7 to the bearing box 8, substantially as and for the purpose specified. 13th. The compressor 11, pivoted on the frame of the machine, and connected by the toggle-jointed bars 12 to the pivoted arm 13, the bottom end of which fits below the spring-plate 14, in combination with a rod 15 arranged to connect the joint of the bars 12 to the arm 7, substantially as and for the purpose specified. 14th. The compressor 16, attached to a spindle on which the segment gear 17 is fastened, which segment gear meshes with a rack on the rod 18, the opposite end of which meshes with the segment gear 19, which is attached to the spindle on which the arm 20 is fastened, in combination with a rod 21 passing through a hole in the forked rod 22, the lower end of which is connected to the arm 7, a spiral spring 23, the whole being arranged and operated substantially as and for the purpose specified. 15th. The combination, with the arm 7, of stor O, substantially as and for the purpose specified. 16th. The rod 25, connected at one end to the sliding-plate V, and at its other end to the arm 26, in combination with the pivoted harpoon fork 24, connected to the arm 26 by the segment gears 27 and 28. 17th. The grooved bracket 29, arranged to receive the friction roller 30, attached to a slide 31 on the harpoon fork 24, in combination with the jointed rod 32, arranged to connect the slide 31 to the harpoon points 33, substantially as and for the purpose specified. 18th. The grooved bracket 29, holding the friction roller 30, which is attached to the slide 31, as specified, in combination with the pivoted gate B, actuated by the spring D, arranged substantially as and for the purpose specified. 19th. A finger 34, attached to the slide 31 and projecting below a pivoted bell-crank 35, in combination with a cam wiper 39, fixed to the shaft 37 and arranged to actuate the bell-crank 35, substantially as and for the purpose specified. 20th. The rod 41, connected to an arm 42, having a projection to fit below the dog 10 and having a projecting slotted hub fitting over the shaft 37, in combination with the pin 40 placed in the face of the segment gear 38 and arranged to operate the rod 41, sub-