No. 42,586. Feeding Attachment for Threshing Machines. (*Appareil d'alimentation pour machines à battre.*)

Charles Quintus and Paul Quintus, both of Garner, Iowa, U.S.A., 13th April, 1893; 6 years.

Claim.—1st. In a device of the class described, the combination with a feed table, of a hinged portion T, having an endless conveyor actuated by suitable mechanism, and sliding bolts t^1, operated by handles t^3, and connecting rods t^2, substantially as described. 2nd. In a device of the class described, the combination of a suitable frame with the rods L, rotated by suitable mechanism having cranks *l*, adapted to actuate the rakes, the guides P, cross bar O, rods W, connecting rods Q, and adapted to be manipulated by a lever r^1, substantially as described. 3rd. The combination of the frame C, having standards *c*, and braces *a*, with the feed table A, having legs F, pivotally secured thereto, and also adapted to be parallel to the same, the standards a^1, the upper ends of which form a loose joint with the braces *a*, and suitable hooks adapted to secure the table A to the rest of the machine when in operative position, substantially as described.

No. 42,587. Mowing Machine. (*Faucheuse.*)

Thomas S. Brown, Poughkeepsie, New York, U. S. A., 13th April, 1893; 6 years.

Claim.—1st. In a mowing machine, in combination, a main frame, a coupling frame, a finger bar, a seat pivoted upon the main frame, and connective mechanism through which the weight of the driver is utilized to balance the finger bar, and maintain the latter in a normal position, substantially as set forth. 2nd. In a mowing machine, in combination, a main frame, a hingedly connected coupling frame and finger bar, a lifting chain or link secured to one of said connected devices, and adapted to lift the finger bar, substantially as set forth. 3rd. In a mowing machine, in combination, a main frame, a hingedly connected coupling frame and finger bar, a lifting chain or link connected to one of said connected devices, and means for retaining the finger bar in a normal position while it is being lifted, substantially as set forth. 4th. In a mowing machine, in combination, with coupling frame and finger bar connected thereto, as a means for maintaining the bar level while both it and the coupling frame are being elevated, a projection such as the gag lug on one of said devices, a member such as the gag lever on the other of said devices, a lifting chain or link connected with said gag lever, and means for exercising traction upon the same, substantially as set forth. 5th. In a mowing machine, in combination, the main frame, the coupling frame, the finger bar, the gag lug, the gag lever bearing thereon, and a lifting device connected with the gag lever at such point that traction exerted upon it tends to elevate both finger bar and coupling frame, substantially as set forth. 6th. In a mowing machine, in combination, the main frame, the coupling frame, the finger bar, the gag lug projecting from the finger bar, the gag lever pivotally mounted on the coupling frame, and bearing on said lug, the lifting device or chain connected with the gag lever at such point that traction exerted upon it tends to elevate the coupling frame and finger bar alike, a seat free for rocking or tilting movement, and a mechanical connection between said seat and lifting chain, substantially as set forth. 7th. In a mowing machine, in combination, a main frame, a coupling frame, a finger bar, a seat pivoted to the main frame, and a train of levers and links intermediate between the pivoted seat and the inner end of the finger bar, substantially as set forth. 8th. In a mowing machine, in combination, a main frame, a coupling frame, a finger bar, a seat pivoted to the main frame, a train of levers and links intermediate between the pivoted seat and the inner end of the finger bar, and lifting hand lever operative in connection with said train, substantially as set forth. 9th. In a mowing machine, in combination, a main frame, a coupling frame, a finger bar, a seat and lever seat support, a rock shaft to which said seat support is affixed, a rocker, a link, a bell crank lever, a chain, a gag lever, and a gag lug upon the finger bar, substantially as set forth. 10th. In a mowing machine, in combination, a main frame, a coupling frame, a finger bar, a seat and lever seat support, a rock shaft to which said seat support is affixed, a rocker, a link, a bell crank lever, a chain, a gag lever, a gag lug upon the finger bar, and a lifting hand lever and lifting chain connected with the gag lever, substantially as set forth. 11th. In a mowing machine, in combination, a main frame, a coupling frame, a finger bar, a gag lever pivoted to the coupling frame, a gag lug upon the finger bar, a lifting hand lever pivoted upon the tongue or frame and equipped with a chain adapted to be connected with either the gag lever or with the coupling frame, substantially as set forth. 12th. In a mower, in combination, a main frame, a coupling frame, a finger bar, a gag lever pivoted to the coupling frame, a gag lug upon the finger bar, a lifting hand lever pivoted upon the tongue or frame and equipped with a chain adapted to be connected either with the gag lever or with the coupling frame, and a foot lever provided with a counter arm adapted to effect the initial elevation of the lifting hand, substantially as set forth. 13th. In a mowing machine, in combination, a main frame, a coupling frame, a finger bar, a gag lever pivoted on the coupling frame, a gag lug on the inner end of the finger bar, a seat pivoted with respect to the main frame and a train of levers and links intermediate between and connective of the pivot of the seat, and the gag lever, substantially as set forth. 14th. In a mowing machine, in combination, a main frame, a coupling frame, a finger bar, a gag lever pivoted on the coupling frame, a gag lug on the inner end of the finger bar, a seat pivoted with respect to the main frame, a train of levers and links intermediate between and connective of the pivot of the seat and the gag lever, and a lifting hand lever pivoted upon the main frame and provided with a lifting chain adapted to be connected with either the coupling frame or the gag lever, substantially as set forth. 15th. In a mowing machine, in combination, a coupling frame, a finger bar joined thereto, a gag lug upon the inner end of the finger bar, projecting inwardly beyond the joint towards the coupling frame, and a gag lever pivoted upon the coupling frame, one extremity of which bears upon the gag lug, and is adapted when its other extremity is elevated to depress the gag lug and tilt the outer end of the finger bar upwardly with relation to its joint with the coupling frame, substantially as set forth. 16th. In a mowing machine, in combination, a coupling frame, a finger bar, jointed to said frame, and a lug upon the inner end of the finger bar beyond its joint adapted when the outer end of the bar is elevated to encounter the coupling frame and limit the elevation of the outer end of the finger bar, so as to form a stop to the joint between said frame and bar, substantially as set forth.

No. 42,588. Tube. (*Tube.*)

Edwin T. Greenfield and Junius Nagel, both of New York, State of New York, U.S.A., 13th April, 1893; 6 years.

Claim.—1st. As a new article of manufacture, a compound tube comprising a formed base of two or more thicknesses of a porous fibrous material and a filling of bituminous material or compound combined with said formed base throughout its mass, substantially as specified. 2nd. As a new article of manufacture, a compound tube having a formed base of two or more thicknesses of paper and a filling of a bituminous compound combined with said base throughout its mass, substantially as specified.

No. 42,589. Boiler. (*Chaudière.*)

Alfred Catchpole, Geneva, New York, U.S.A., 13th April, 1893; 6 years.

Claim.—1st. In combination with the fire box, a plurality of water compartments disposed side by side transversely over the fire box and with radial fire passages between said compartments, a shell inclosing the water compartments and forming a combustion chamber around the exterior thereof, and one or more flues horizontally through each of the water compartments and separated from those of the adjacent compartments and communicating with the fire box and combustion chamber by means of the radial fire passages between the water compartments, substantially as set forth and shown. 2nd. In combination with the fire box, a plurality of water compartments placed side by side and across the top of the fire box and with radial fire passages between the compartments and having their peripheral faces corrugated, water connections between said water compartments and terminating at the exterior of the vertical walls thereof, and a shell inclosing the water compartments and forming with the indentations of the corrugated exteriors thereof, longitudinal flues on the exterior of the boiler, communicating the internal flues through the aforesaid radial passages, substantially as set forth. 3rd. In combination with a fire box, a plurality of water compartments disposed side by side with spaces between them and mounted on the fire box crosswise thereof and having their peripheral surfaces corrugated and with the indentations of the corrugations of each in line with those of the other compartments, and cleaning ports, in the ends of the combustion chamber and in range with the aforesaid indentations of the corrugated surfaces of the water compartments, substantially as described and shown.

No. 42,590. Tobacco Cutter. (*Coupe-tabac.*)

Alexander Stuart, Hamilton, Ontario, Canada, 13th April, 1893; 6 years.

Claim.—1st. A tobacco cutter consisting of a rectangular shaped box, having an interior recess for cut tobacco, a cylinder journalled on the box, and having knife or saw-shaped teeth for cutting tobacco, and a handle to rotate the cylinder, substantially as specified. 2nd. In a tobacco cutter, the combination of the box A, with recess B, cover J, cylinder H, having knife or saw teeth *a*, *b*, standards E, spindle F, handle I, all constructed substantially as and for the purpose specified.

No. 42,591. Cash Registering and Recording Appliance. (*Registre de monnaie.*)

John Shakespeare, Dudley, Worcester, England, 13th April, 1893; 6 years.

Claim.—1st. In a cash register, the combination, with the two indicating dials C and D at the opposite sides of the case, the indicating pointers, and the toothed wheels positively connecting the shafts of the said pointers, of a ratchet wheel, a spring pressed pawl pivoted to one of the said wheels and adapted to turn the ratchet wheel in one direction, a pivoted check pawl, the recording dials provided with pointers, and toothed wheels operatively connecting the recording pointers with the said ratchet wheel, substantially as set forth. 2nd. In a cash register, the combination, with an indicating pointer and its shaft, of a trip lever secured on the said shaft, a bell, a pivoted spring lever provided with a hammer for