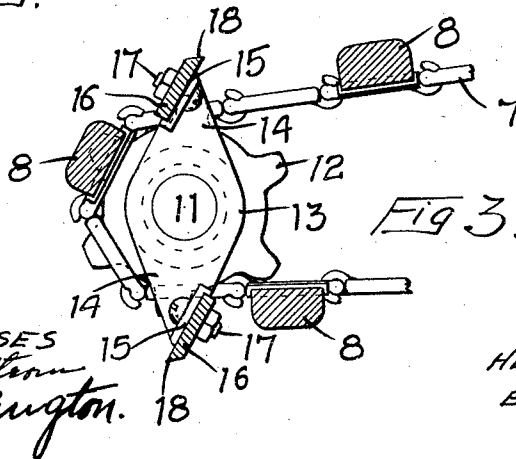
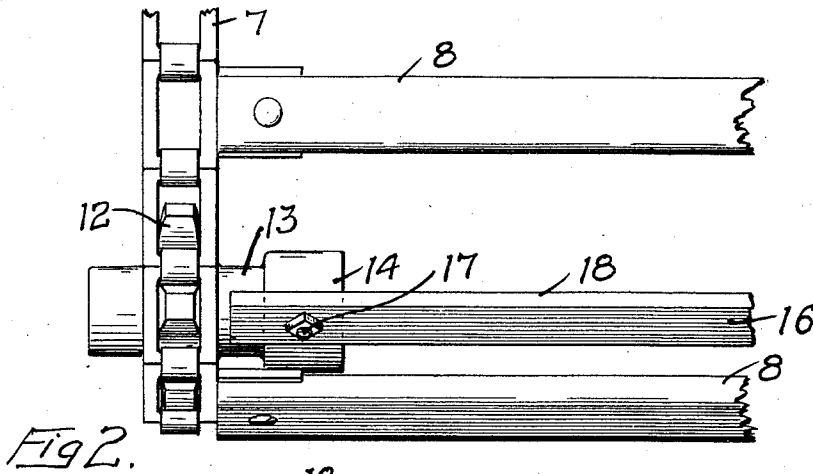
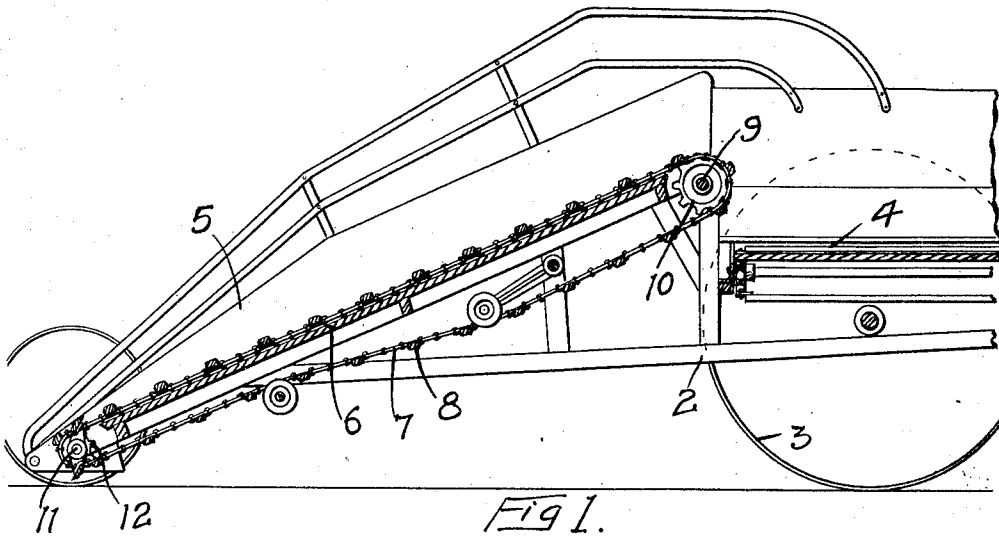


H. S. BATTEE.
BUNDLE LOADER.

APPLICATION FILED MAR. 23, 1909. RENEWED FEB. 27, 1911.

1,005,126.

Patented Oct. 10, 1911.



WITNESSES
Am. Machine
J. H. Bevington.

INVENTOR
HENRY S. BATTEE
BY *Paul & Paul*
HIS ATTORNEYS

UNITED STATES PATENT OFFICE.

HENRY S. BATTEE, OF MINNEAPOLIS, MINNESOTA, ASSIGNOR TO SHOCK & HAY LOADER CO., OF MINNEAPOLIS, MINNESOTA, A CORPORATION OF MINNESOTA.

BUNDLE-LOADER.

1,005,126.

Specification of Letters Patent.

Patented Oct. 10, 1911.

Application filed March 23, 1909, Serial No. 485,175. Renewed February 27, 1911. Serial No. 611,238.

To all whom it may concern:

Be it known that I, HENRY S. BATTEE, of Minneapolis, Hennepin county, Minnesota, have invented certain new and useful Improvements in Bundle-Loaders, of which the following is a specification.

This invention relates to a machine adapted to pick up bundles or sheaves of grain from the ground and deliver them to a wagon or rack at the side of the machine.

The object of this present invention is to provide an improved pick-up device that is simple and economical in construction and very efficient in its operation.

The invention consists in a pick up frame arranged to oscillate vertically from the axle of a main frame and having transverse blades which revolve close to the ground line and pick up the bundles or loose grain or hay therefrom.

Further the invention consists in supporting the pick up bars in such a manner that the space beneath them and across the middle portion of the pick up frame will be unobstructed.

In the accompanying drawings, forming part of this specification, Figure 1 is a side view, partially in section, of a bundle loader, embodying my invention, Fig. 2 is the front view of the pick-up mechanism, Fig. 3 is a detail, sectional view, showing the construction of the pick-up device.

In the drawing, 2 represents the frame of the machine, 3 a carrying wheel and 4 a transverse carrier belt, on which the bundles or sheaves are delivered by the pick up mechanism.

5 is a pick up frame, projecting forwardly from the main frame of the machine, and including an inclined platform 6 and a carrier belt 7 operating thereon, having a series of transverse slats 8. This pick up frame is capable of oscillation from the wheel axle with the main frame of the machine. The slats 8 preferably have their upper edges rounded, as indicated in Fig. 3 to prevent the bundles or sheaves from lodging on the slats. A shaft 9 is provided at the upper end of the platform with sprocket wheels 10 thereon and studs 11 are mounted in the lower end of the frame on each side thereof and carry sprocket wheels 12, which are driven through the belt 7. I have shown in the drawing only one side of the machine, but it will be understood that the studs 11

and sprockets 12 are provided on both sides with the pick-up belt operating between them. These sprocket wheels have hubs 13 from which arms 14 project, each arm having a seat 15, that is inclined to the horizontal and whereon blades 16 are secured by a bolt 17. The seats are oppositely arranged on the arms, so that the pick-up edges 18 of the blades will follow one after the other and gather up the bundles or sheaves and deposit them on the carrier belt. The blades 16 extend across the machine and their pick-up edges are preferably beveled, as indicated in Fig. 3, so that they can operate close to the ground line and make a thorough pick-up of all material in front of the machine.

The number of arms on the hubs of the sprocket wheels can be increased, if desired, so that a larger number of blades can be used. I have found, with this apparatus, that the bundles or sheaves of grain or loose grain or hay can be easily picked up and delivered to the machine, and that the pick-up apparatus will follow the inequality of the ground and can be operated with comparatively little power. I prefer to arrange the arms on the hubs of the sprocket wheels rather than to extend the shaft entirely across the pick-up frame, as such a shaft would have a tendency to collect the grain and clog the pick-up apparatus. Such a construction would however, be within the scope of my invention.

I claim as my invention:—

1. In a bundle loader, the combination, with a wheeled main frame, of a pick-up frame projecting forwardly therefrom and capable of vertical oscillation from the axle of said main frame, a flexible endless carrying means mounted in said pick-up frame and having its forward portion near the ground line, and revolving pick-up blades carried by said pick-up frame and located at the forward portion thereof, near the ground line and operating to pick up the bundles and deposit them upon said carrying means.

2. In a bundle loader, the combination, with a wheeled main frame, of a pick-up frame capable of vertical oscillation from the axle of said main frame, an endless carrying means mounted in said pick up frame, revolving arms carried by said frame, and pick-up blades carried by said arms and having beveled edges, which are adapted to operate along the ground line and pick up

the bundles thereon and deposit them upon said carrying means.

3. The combination, with a pick-up frame, of studs mounted therein, sprocket wheels
5 journaled on said studs, an endless carrying means, including sprocket chains, engaging said wheels, arms mounted on the hubs of said sprocket wheels and projecting laterally therefrom and having seats inclined to the
10 axes of said hubs and blades secured to said seats.

4. The combination, with a pick up frame, of studs mounted in the lower end of said frame on each side thereof, sprocket wheels
15 journaled on said studs, an endless carrying

means, including sprocket chains, engaging said wheels, arms mounted on said sprocket wheels and projecting laterally therefrom, blades secured to said arms and extending transversely of said carrying means, the
20 space between the upper and lower runs of said carrying means and between said studs being unobstructed, for the purpose specified.

In witness whereof, I have hereunto set my hand this 15th day of March 1909.

HENRY S. BATTEE.

Witnesses:

RICHARD PAUL,
J. A. BYINGTON.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
