

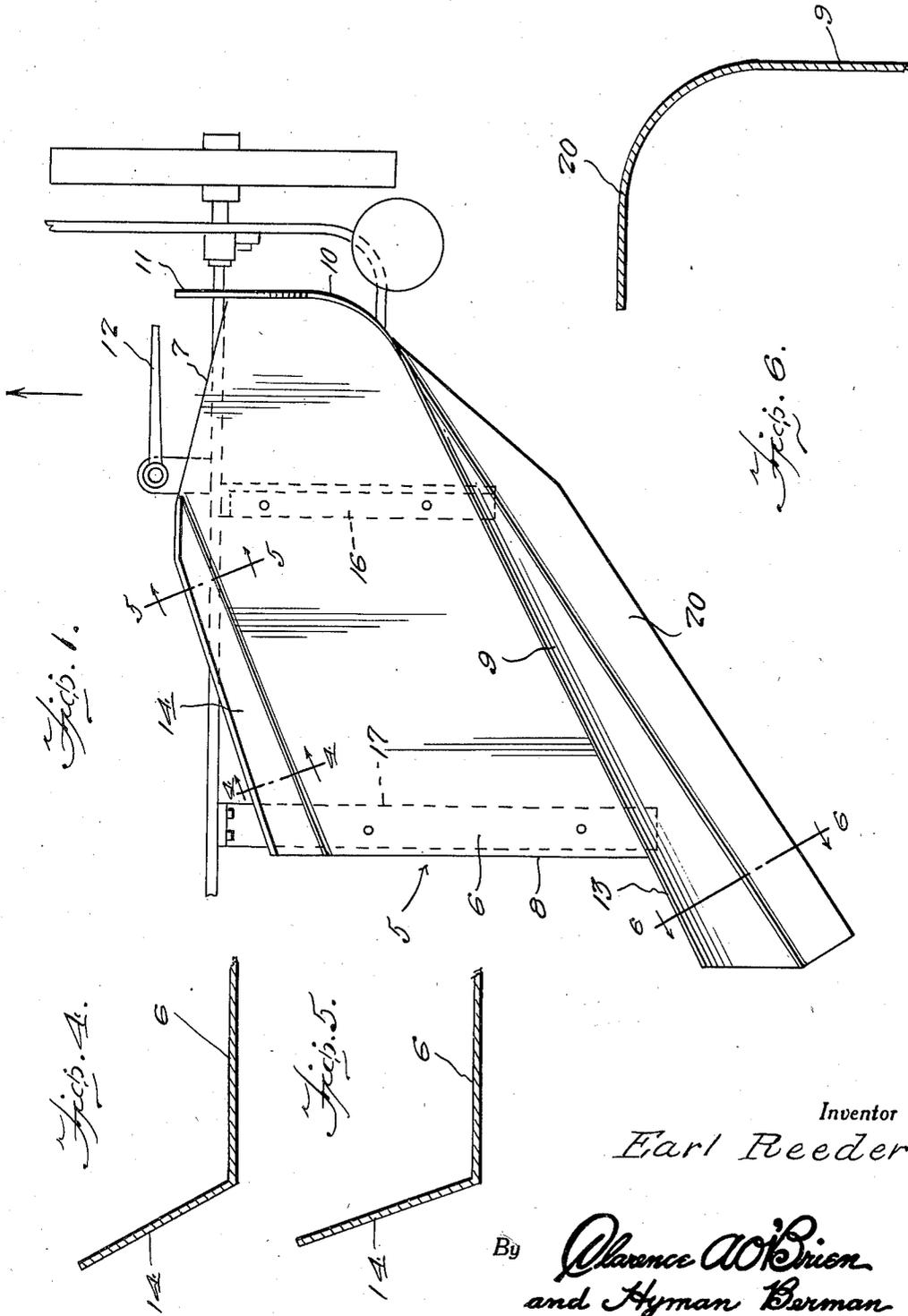
May 14, 1940.

E. REEDER
BUNDLE CLEARING CHUTE

2,201,054

Filed Dec. 15, 1938

2 Sheets-Sheet 1



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2 Sheets-Sheet 2

Fig. 2.

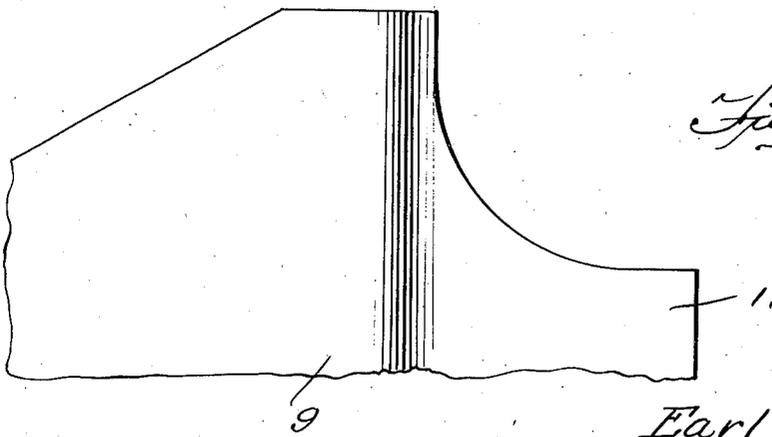
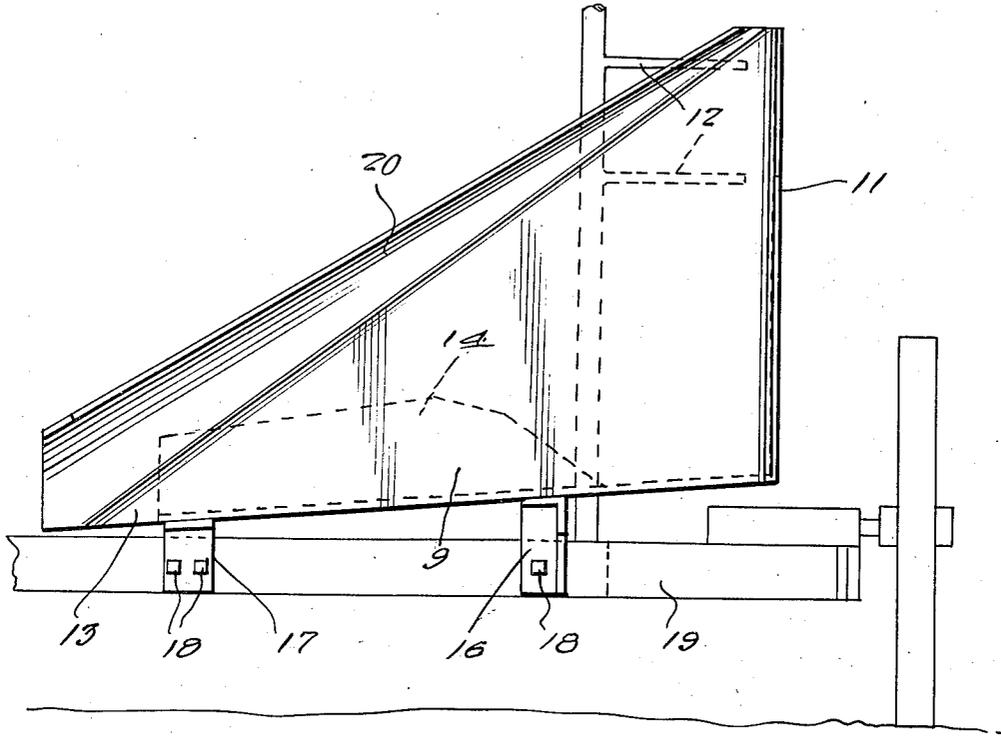


Fig. 3.

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UNITED STATES PATENT OFFICE

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BUNDLE CLEARING CHUTE

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Application December 15, 1938, Serial No. 245,992

1 Claim. (Cl. 56—68)

This invention relates broadly to attachments for corn binder machines and more particularly to a chute for attachment to such a machine for the purpose of depositing the bundles of corn away from the machine and well beyond the path of the tractor or other draft vehicle provided for the corn binder machine, to the end that on the succeeding round or return trip of the machine the bundles of corn will not be passed over by the tractor and consequently broken, damaged and filled with dirt as is now generally the case. Obviously such broken, damaged and dirt-filled corn bundles are objectionable as being harder to handle and being of poor quality as ensilage or feed.

An object of the invention is to provide a chute of the character and for the purpose mentioned that can be easily and cheaply fabricated, can be used over a period of years, and will otherwise meet all the requirements of a corn binder attachment of this character.

The invention together with its objects and advantages will be best understood from a study of the following description taken in connection with the accompanying drawings wherein:

Figure 1 is a top plan view illustrating the application of the invention.

Figure 2 is a rear elevational view of the chute.

Figure 3 is a fragmentary plan view of the chute, and

Figures 4, 5 and 6 are detail sectional views taken substantially on the lines 4—4, 5—5, and 6—6, respectively, of Figure 1.

Referring more in detail to the drawings it will be seen that the chute is indicated generally by the reference numeral 5. The chute 5 may be formed from a single blank of metal or other suitable material cut, shaped and dimensioned to provide a bottom 6 having extending along one side thereof, from the inlet end 7 thereof to the outlet end 8 thereof a perpendicular wall 9 that gradually increases in height from approximately the outlet end 6 of the chute to a point short of the inlet end 7, and at which point it merges into a wall 10 of uniform height and at the inlet end 7 projects beyond said end 7 as at 11 to guide the bundles onto the chute 5 at the end 7 as said bundles are kicked out into the chute through the medium of the usual kickers 12 with which the corn binder, as is conventional, is provided.

At the discharge end 8 thereof the rear wall 9 is extended beyond the end 8 of the chute as at 13 as and for a purpose hereinafter made manifest.

At the forward longitudinal edge thereof the chute 5 also has rising from the bottom 6 of the chute, and at an angle to the perpendicular a relatively shallow wall 14 that extends from the end 7 to the end 8 of the chute.

The wall 10 serves as an end wall for the chute.

In actual practice the chute 5 fits under the pan in the binder chute of the binder machine and extends across the rear of the binder machine, as shown in Figure 1, the chute being supported at an incline to the horizontal, and to slope from the end 7 thereof to the end 8 thereof through the medium of bracket bars 16 and 17, equipped at one end, as shown in Figure 2, with flanges, through the medium of which and bolts 18 said bracket bars 16 and 17 are secured to a frame part 19 of the corn binder, only a portion of which is shown, and as believed necessary for a proper understanding of the invention.

From the above it is believed to be apparent that in actual practice the bundles of corn are kicked onto the chute 5 through the medium of the conventional kickers 12. As the bundles of corn are so kicked out into the chute the bundles fall into the chute with the butts of the corn-stalks resting upon the bottom 6 of the chute and the tips of the stalks resting upon the ground. The forward progress of the binder machine, in conjunction with the wall extension 13 and the general shape of the chute, causes the bundled corn to fall to the left side of the machine and clear of the path of the tractor or other draft vehicle provided for the machine so that the tractor and binder machine will not ride over the bundles on the succeeding round or return trip of the machine. Obviously the object of so depositing the bundles so that the draft vehicle of the binder will not run over and crush the bundles on the return trip is to insure against the damaging of the corn and the filling of the same with dirt as thus results where, upon the return trip thereof, the draft vehicle and binder machine run over the bundles.

As best shown in Figure 6 the wall 9 with its extension 13 has the inclined edge thereof provided with an integral flange 20 so as to provide a substantially rolled edge for the wall 9 and extension 13 and thereby further insure against damage resulting to the bundles from contact of the wall 9 and extension 13 thereof with the bundles as the bundles pass over the bottom of the chute and the extension 13 comes in contact with the bundles for causing the latter to fall flat onto the ground during the forward progress of the binder.

It is thought that a clear understanding of the construction, utility, operation and advantages of an invention of this character will be had without a more detailed description.

5 Having thus described the invention what is claimed as new is:

10 A bundle clearing chute for a corn binder, said chute comprising a bottom, an end wall rising from one end of the bottom, the other end of the chute being open, a front side wall and a rear side wall rising from the bottom, the end wall and said front side wall being spaced apart to form an inlet opening at the front side of the chute adjacent the closed end, brackets for connecting the chute to the rear end of a corn binder with the inlet opening in position receiving bundles from the delivery means of the binder and with the bottom of the chute sloping downwardly from the closed end to the open end, said rear side wall being of considerable height where it joins the end wall for receiving upper portions

of the bundles as they fall over as they enter the chute and said rear wall having its top sloping downwardly from said high part to the end of the wall at the open end of the chute and said wall having a sloping top curving rearwardly to form a wide part down which the upper portion of a bundle slides which causes the bundle to lie upon the bottom of the chute with its top projecting from the open end thereof and engaging the ground, the lower end of the rear side wall projecting beyond the open end of the chute to cooperate with the forward movement of the machine and engagement of the top of a bundle with the ground to turn the bundle as it falls upon the ground with the butt toward the direction of travel of the machine and the bundles out of the return path of the machine, said front side wall sloping upwardly and forwardly and of short height.

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