No. 847,875. PATENTED MAR. 19, 1907.

G. S. ANGIER.

ATTACHMENT FOR THRESHING MACHINES.

APPLICATION FILED JUNE 13, 1906.

2 SHEETS—SHEET 1.

Fig. 1.

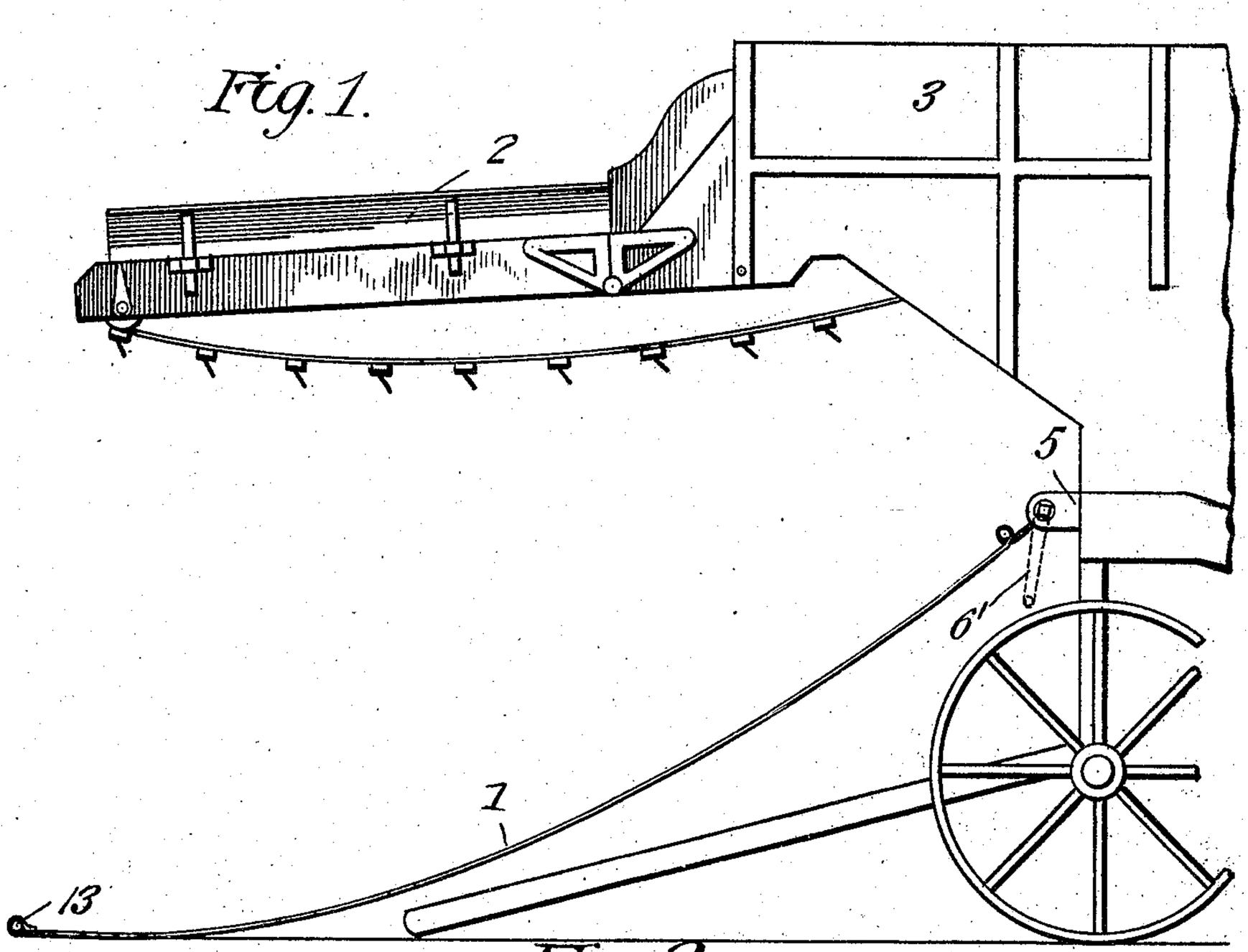
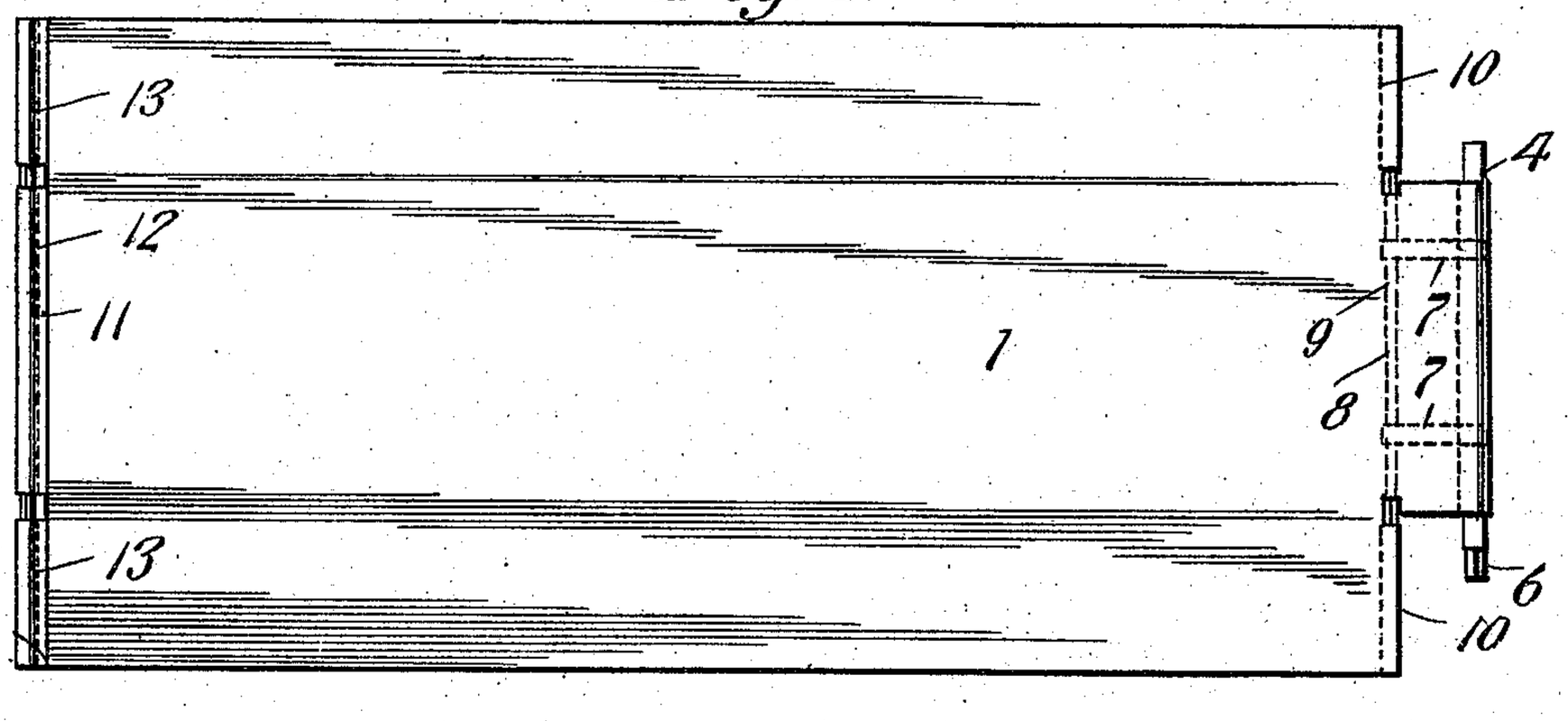


Fig. 2.



Witnesses
Geo. Ackman Jr.
D. W. Gould.

Inventor
G. S. Angier,
By Victor J. Evans
Attorney

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2 SHEETS—SHEET 2.

Fig. 3.

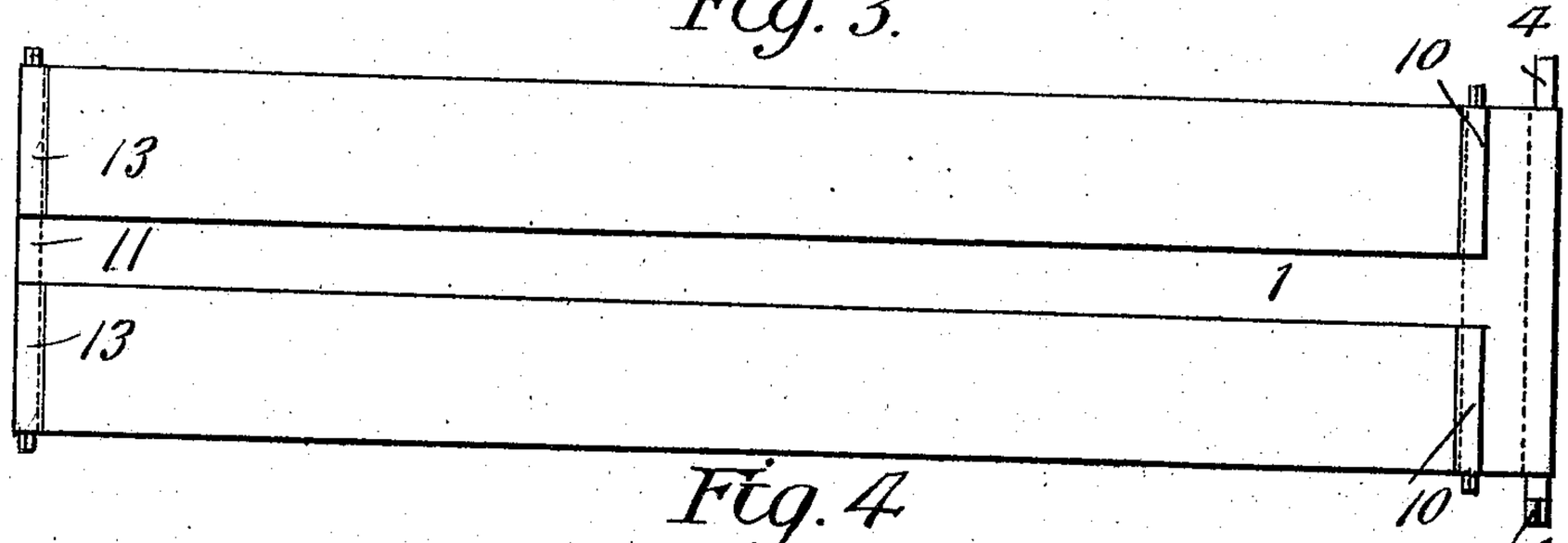


Fig. 4

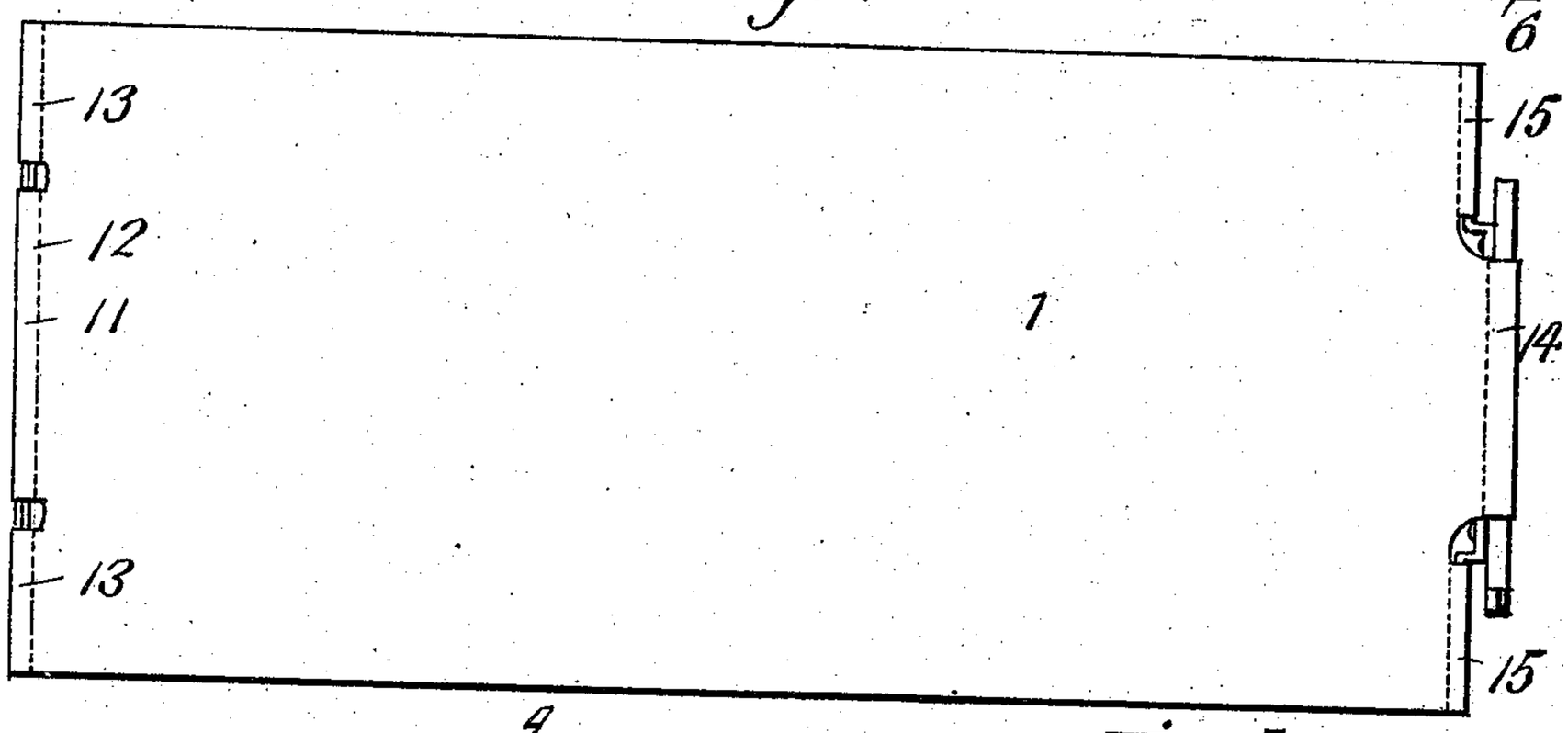


Fig. 5.

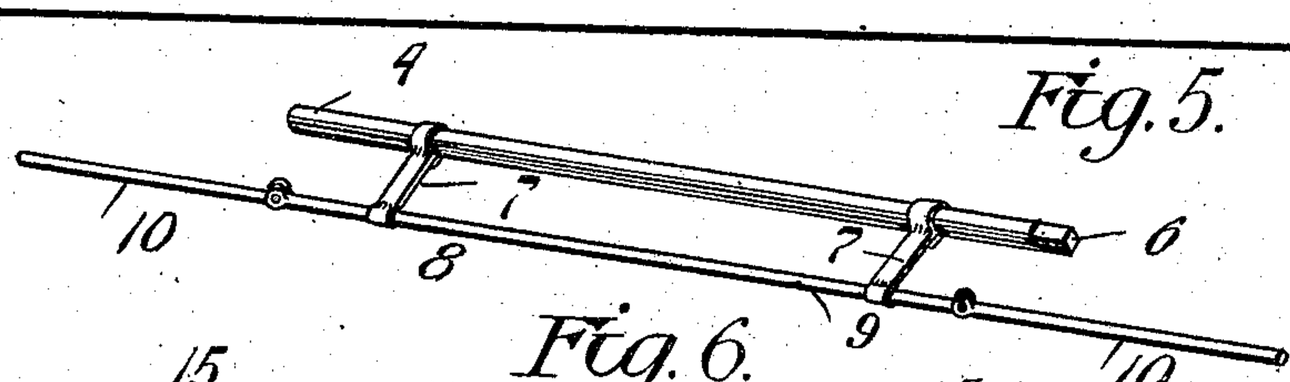


Fig. 6.

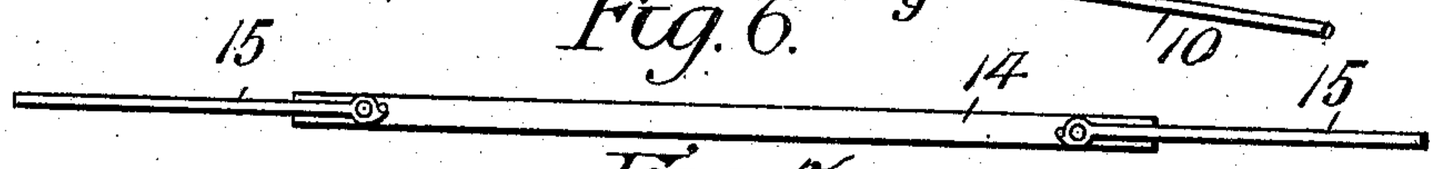


Fig. 7.

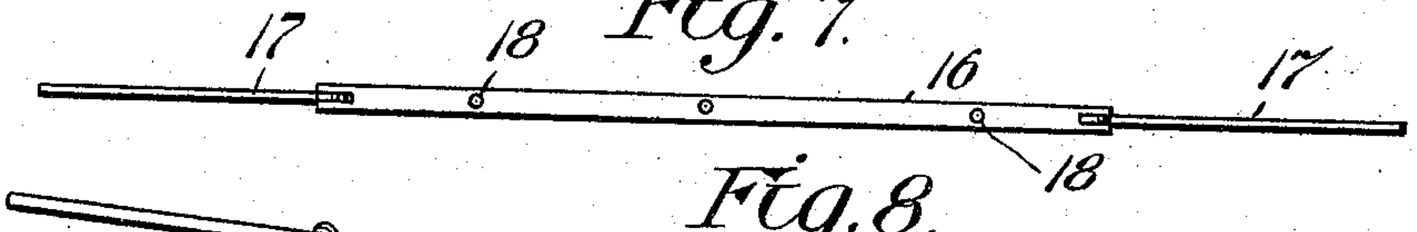
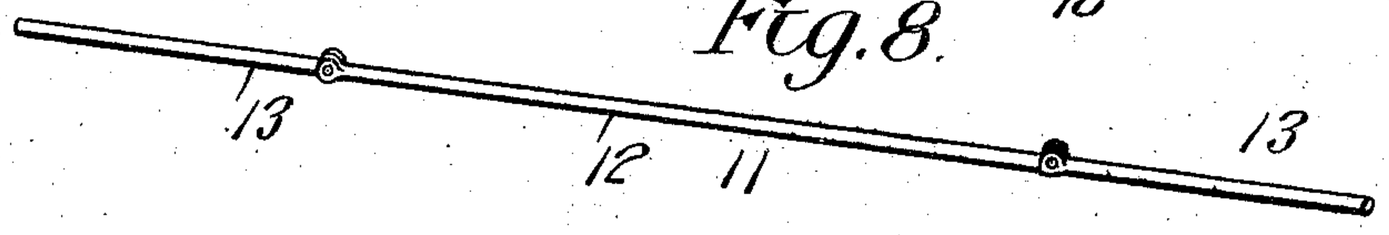


Fig. 8.



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D. W. Gould.

Inventor
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By Victor J. Evans.
Attorney

UNITED STATES PATENT OFFICE.

GEORGE S. ANGIER, OF SCHALLER, IOWA.

ATTACHMENT FOR THRESHING-MACHINES.

No. 847,875. Specification of Letters Patent. Patented March 19, 1907.

Application filed June 13, 1906. Serial No. 321,478.

To all whom it may concern:

Be it known that I, GEORGE S. ANGIER, a citizen of the United States, residing at Schaller, in the county of Sac and State of Iowa, have invented new and useful Improvements in Attachments for Threshing-Machines, of which the following is a specification.

The invention relates to an attachment for threshing-machines designed, primarily, to avoid the waste of the grain ordinarily dislodged in feeding the material to the self-feeder of the machine.

The main object of the present invention is the production of a device of the class described adapted for ready attachment to a threshing-machine and which when in extended position will underlie the self-feeder to catch the grain scattered from the feeder, the construction providing for a folding or rolling of the device in a small compass when not in use.

The invention will be described in the following specification, reference being had particularly to the accompanying drawings, in which—

Figure 1 is a view in side elevation, showing the forward end of a grain-thresher and illustrating the application of my improved attachment thereto. Fig. 2 is a plan of the attachment removed. Fig. 3 is a similar view showing the attachment in initially-folded condition. Fig. 4 is a plan of a modified form of attachment. Fig. 5 is a perspective of the preferred means for securing the attachment to the thresher. Fig. 6 is a side elevation of a modified form. Fig. 7 is a plan view of another form; and Fig. 8, a perspective of the spreading means, the free end of the attachment.

Referring particularly to the drawings, wherein similar reference-numerals indicate like parts throughout the several views, my attachment comprises, primarily, a flexible sheet of material 1, preferably of canvas or the like, which is of a sufficient width and length when extended to underlie the self-feeder 2 of a threshing-machine 3, so as to receive all of the grain falling from the material introduced into the self-feeder.

As the preferred form of means for securing the sheet 1 to the threshing-machine I mount a shaft 4 for rotation in brackets 5, projecting from the forward end of the machine proper, one end of the shaft preferably extending beyond the adjacent brackets and being squared at 6 for the reception of an operating handle or crank 6′. The shaft 4 is provided with rearwardly-projecting spaced parallel arms 7, in the free ends of which is secured the forward distending-bar 8 of the sheet. In the preferred form the bar 8 is in three sections—an intermediate section 9, designed to be rigidly secured to the arms 7, and end sections 10, having hinged connection with the respective ends of the intermediate section and slightly less in combined length than the length of the intermediate section.

The distending-bar 11 for the forward end of the sheet is similar to the bar 8, having an intermediate section 12 and hinged end sections 13.

The sheet 1 is connected at its respective ends to the respective distending-bars, the forward edge of the sheet being secured to the bar 11 throughout its length, being, of course, cut out to permit operation of the hinged connections, while the rear edge of the sheet is connected to the hinged section 10 of the forward distending-bar, as shown, the intermediate portion of the sheet overlying the section 9 of said bar and being projected rearwardly therefrom and connected to the shaft 4.

In use the sheet in projected position will underlie the self-feeder and serve as an effective trap for the grain falling therefrom, it being understood that the forward distending-bar when the device is in use rests upon the ground or any other desired support. When the sheet is not desired for use, the respective sections 10 and 13 of the forward and rear distending-bars are folded upon the central portion of the sheet, as shown in Fig. 3, thus reducing the width of the sheet to correspond with the portion connected directly to the shaft 4. The shaft 4 may be revolved under the influence of the handle 6′ to wind the sheet about the shaft, as will be obvious.

In the form shown in Fig. 6 the operating-shaft is utilized as a part of the forward distending-bar, the ends of the shaft 14 being provided with hinged sections 15, designed to provide a bar in length equal to the forward distending-bar while at the same time permitting said sections to be folded upon the main section to present the sheet in folded condition.

In Fig. 7 the forward distending-bar comprises a central section 16 and hinged section 17, the intermediate section being formed with a series of openings 18. This form of

bar is designed for use when the attachment is not to form a fixed part of the thresher, the openings 18 permitting the convenient engagement and disengagement of the attachment as a whole from any suitable form of hook or pin projecting from the body of the thresher, as will be understood. In the use of the latter form of attachment provision is made for reducing its width, so that when removed from the thresher it may be folded into a compact compass for storage or transportation. In use the attachment provides for saving a quantity of grain heretofore lost in the operation of the thresher and in addition avoids the objectionable distribution of particles from the feeder ordinarily scattered over the ground below the feeder.

The attachment is exceedingly simple and inexpensive in construction and is readily adapted for use with any ordinary form of thresher.

Having thus described the invention, what is claimed as new is—

An attachment for threshing-machines comprising a flexible sheet, a distending-bar for each end of said sheet, each of said bars having folded sections, and means carried by the threshing-machine for supporting the sheet, said means being operable to wind the sheet about said means.

In testimony whereof I affix my signature in presence of two witnesses.

GEORGE S. ANGIER.

Witnesses:
A. J. MARTIN,
JENS JENSEN.