

E. H. GAMMON.
HARVESTER.

No. 180,759.

Patented Aug. 8, 1873.

Fig. 1.

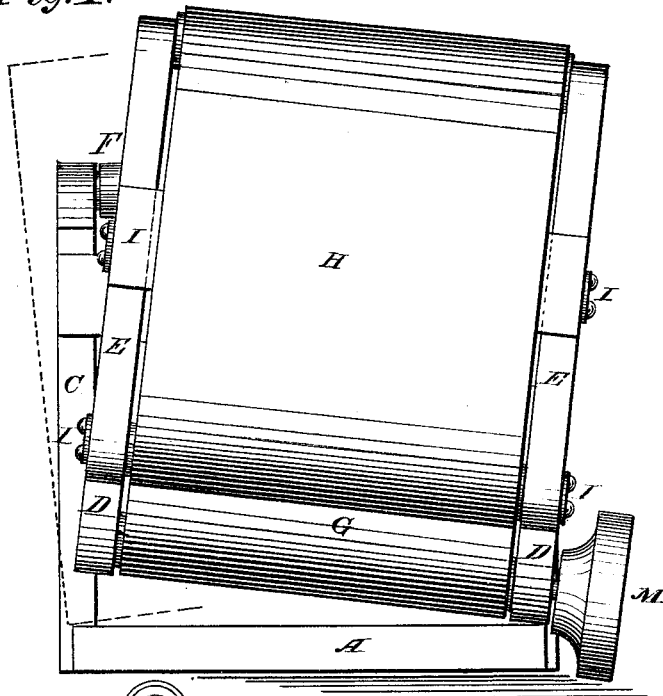


Fig. 2.

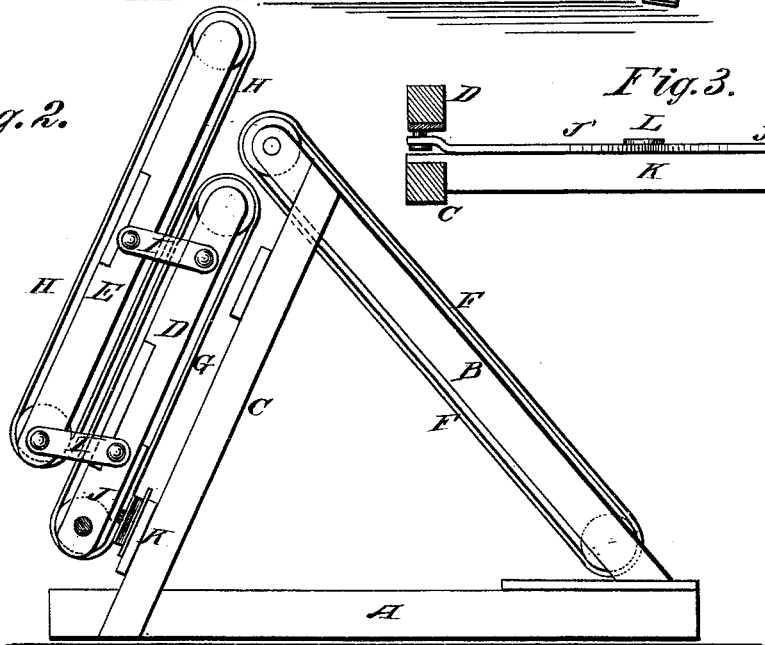
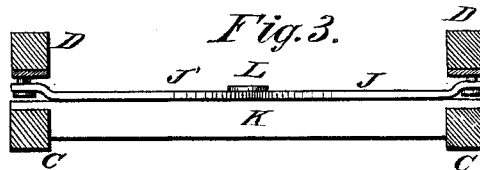


Fig. 3.



Witnesses:
L. L. Bond
O. W. Bond.

Inventor:
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UNITED STATES PATENT OFFICE.

ELIJAH H. GAMMON, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN HARVESTERS.

Specification forming part of Letters Patent No. **180,759**, dated August 8, 1876; application filed March 17, 1876.

To all whom it may concern:

Be it known that I, ELIJAH H. GAMMON, of Chicago, Cook county, and State of Illinois, have invented certain new and useful Improvements in Guiding Attachments for Harvesters, of which the following is a full description, reference being had to the accompanying drawings, in which—

Figure 1 is a side view; Fig. 2, an end elevation, and Fig. 3 a cross-section, showing the connecting-pivot.

The object of this invention is to provide a grain-harvesting machine which has a fixed elevator, with an attachment which will properly guide and deliver the grain as it is elevated to a self-binding attachment, so that the gavels will be bound in the proper place, whether the grain is long or short; and its nature consists in pivoting to the frame of the elevator two frames—one acting as a cover to keep the grain in position, and the two arranged to be shifted together to the right or left, and inclined so as to direct or guide the grain to the binding attachment in a position to receive the band in the proper place, between the heads and butts.

In the drawings, A represents a part of the base or main frame; B C, the elevator-frame; D, lower guide-frame; E, upper guide-frame; F, elevator canvas or rake; G, guide canvas or rake; H, covering-canvas or other guide-cover; I, pivoted bars connecting the frames D E together and adjustably supporting the frame E; J, lower cross-bar of the frame D; K, lower cross-bar of the posts or bracing-supports C; L, pivot for hinging and supporting the frame D upon the elevator-frame.

In applying my invention, the frame A will be extended out or connected with a suitable frame for carrying and operating the necessary appliances for cutting the grain and delivering it to the elevator. The elevator may be of any of the usual and well-known forms, as my attachment is designed to be used for converting any of the hand binding-machines into automatic machines, and to be used for directing the grain, as it is elevated, to an automatic binder, without

the necessity of shifting the binder to accommodate the varying lengths of the grain. The frame D is provided with rollers at each end, which carry a canvas or a system of belts, or belts and rakes. The lower roller is provided with a driving pulley or wheel, and the frame is pivoted to the cross-bar K of the elevator-frame. The bar J of the frame D is placed so as to come outside of the canvas or other running parts in said frame, and is pivoted at L to the bar K, so that the frame D may be moved or inclined either way from the central line, as indicated by its position in Fig. 1, and the dotted line.

As shown, the frame D is pivoted to the elevator-frame, at or near its lower end, but it may be pivoted at the upper end or center, as shall be most convenient in attaching it to or operating it from the machine to which it is applied.

The frame E, as shown, is also provided with rollers at its ends, for carrying the canvas H or its substitutes. This frame is attached to and supported upon the frame D by the pivoted bars I, by means of which the space between the two frames can be adjusted, as the raising of the frame E opens the space, and lowering it closes it.

If desired, the power may be applied to move the canvas H or other substitute for it, or the frame E may be fitted with slats or wires, or arms or bars permanently attached to the upper end thereof, or to both ends, as its office, when the power is applied to the devices of the frame D, is to keep the grain down, so as to follow the changed movement. And when the power is applied to move the devices of the frame E, then frame D may be made permanent or stationary, as it is not necessary that both should move; and when both move with grain between them, one will operate the other.

This guide attachment will be connected with a lever or other suitable device, so that the driver or an attendant may shift it, so as to deliver the grain to the automatic binder at the proper place for binding, thus making a simple and convenient attachment for delivering long or short grain to a binder

which is fixed in its position, and which, for that reason, is less liable to get out of order and is more certain in its action.

What I claim as new, and desire to secure by Letters Patent, is—

In a shifting grain-delivering attachment for a harvester, the shifting frame D, pro-

vided with the frame E, and elevator-canvas H, constructed and operating substantially as specified.

ELIJAH H. GAMMON.

Witnesses:

L. L. BOND,
O. W. BOND.