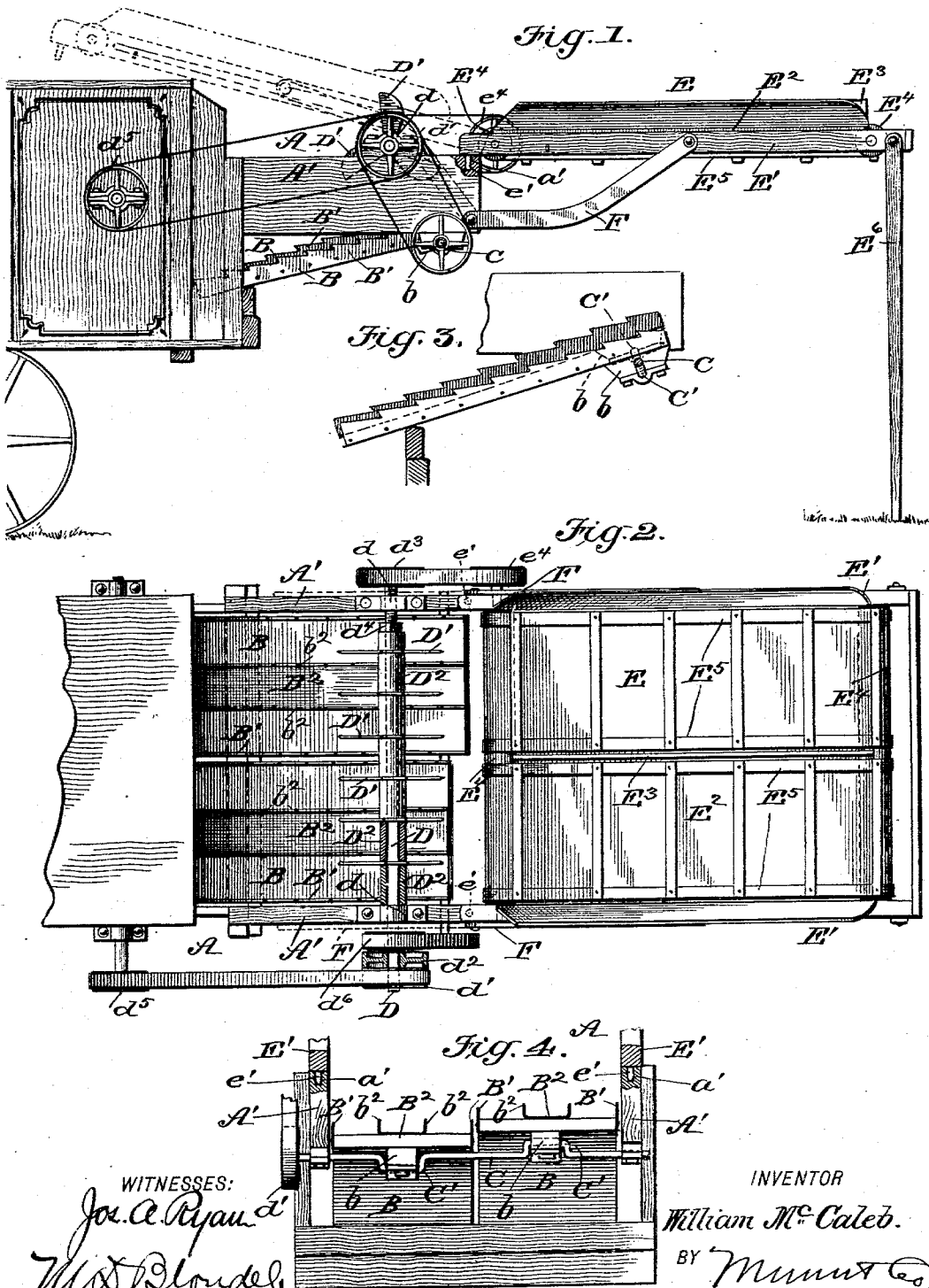


(No Model.)

W. McCALEB.
BAND CUTTER AND FEEDER.

No. 561,909.

Patented June 9, 1896.



WITNESSES:

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WILLIAM MCCALED, OF BLUFFS, ILLINOIS.

BAND-CUTTER AND FEEDER.

SPECIFICATION forming part of Letters Patent No. 561,909, dated June 9, 1896.

Application filed September 13, 1895. Serial No. 562,386. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM MCCALED, a citizen of the United States, residing at Bluffs, in the county of Scott and State of Illinois, have invented certain new and useful Improvements in Band-Cutters and Feeders, of which the following specification contains a full, clear, and exact description, reference being had to the accompanying drawings, forming part thereof, and in which—

Figure 1 is a side elevation of my improved band-cutter and feeder applied to the rear end of a threshing-machine. Fig. 2 is a top plan view of the same. Fig. 3 is a detail view of the feeder-bars. Fig. 4 is a detail rear view of the same.

My invention is an improvement in that class of band-cutters and feeders in which the portion of the apparatus constituting the sheaf or bundle carrier is adapted to be turned up or detached, so that it may be supported on the body or main portion of the frame while the machine is stored or being transported.

The feature of novelty is the construction and combination of parts hereinafter described, whereby the bundle-carrier is adapted to be detached and swung over and held in place on the main portion of the frame.

A represents the cutter and feeder frame, which is to be rigidly secured to the end of the threshing-machine next to the threshing-cylinder, and within this frame reciprocate the feeder-bars B B, having boxes *b b* on the outer ends of their under sides, in which are mounted the cranks C' C' of the shaft C, journaled on the under side of the outer ends of the side bars A' A' of the frame or extension A. The cranks C' C' project oppositely, so as to reciprocate the feeder-bars B B alternately. The side edges of the bars B B are provided with toothed plates B' B', and to the upper sides of the middle portion of these feeder-bars are secured the channel or U shape plates B² B³, the longitudinal side flanges of which have toothed upper edges *b*². The teeth of these plates B' B² are like saw-teeth and will slide under the grain in the rearward movement of the feeder-bars, but will engage the grain in the inward movement of the bars and push it toward the threshing-cylinder.

D is the cutter-shaft, journaled in bearings *d* on the upper side of the outer ends of the side bars A' and provided with a fast pulley *d*¹ and a loose pulley *d*² at one end, which are belted to the pulley *d*³ on the shaft of the threshing-machine cylinder, and the fast pulley *d*⁴ on the shaft D is belted to the feeder-shaft C. The opposite end of the knife or cutter shaft is provided with a fast pulley *d*⁵ to drive the bundle-carrier, which will be presently described.

D' represents the saw-like knives or cutters mounted on the shaft D, spaced apart by sleeves D², and clamped in place by nuts *d*¹ on threaded portions of the shaft.

E is the carrier for delivering the bundles of grain to the cutters and feeders, and it comprises a frame formed of side bars E', a floor E², central vertical partition E³, end rollers or shafts E⁴, and a pair of endless slatted belts E⁵. The upper or inner roller-shaft E⁴ is provided with a pulley *e*⁴, belted to the pulley *d*³ on the knife-shaft D. The upper or inner ends of the side bars E' are provided with downwardly-projecting pins *e*¹, which enter sockets *a*¹ in the upper sides of the outer ends of the bars A', so as to be readily removed and inserted.

F represents the curved or angular arms, pivoted at one end to the outer ends of the side bars A' and at their opposite ends pivoted to the middle portions of the carrier-frame bars E'. It will be seen that by this construction and arrangement of parts the upper ends of said arms F constitute fulcrums on which the carrier-frame may be tilted and swung—that is to say, the frame is first swung downward at its outer end, (after the legs E⁶ have been folded,) whereby the pins *e*¹ are detached from their sockets. Then the frame is pushed backward and upward, so that it rises on the arms F, which serve as swinging supports, and is carried over the cutters D' to the position shown by dotted lines, Fig. 1, in which it rests on the top of the main frame, the arms F lying between the pulleys and belts and sides of the main-frame extension A', while their curve or angle accommodates the shaft D, so that it may be located in the requisite proximity to the inner end of the endless carrier E.

The lower ends of the arms F being piv-

oted to the extension A' at points in advance of said cutter-shaft and below the pin-sockets a', where the carrier-frame is attached, it follows that said arms perform the additional function of holding the carrier-frame in its folded position. In other words, the arms F prevent the carrier-frame from sliding off the main frame, so that no supplemental means for that purpose are required.

10 In the folded position the outer ends of the carrier-frame do not project beyond the main-frame extension A', so that the whole apparatus may be stored in a space that will accommodate the main frame as to length.

15 What I claim is—

The combination, with the main frame of the band-cutter and feeder, having a horizontal extension A', and a knife or cutter shaft mounted on the latter, and belts and

pulleys arranged as specified, of the bundle-carrier frame and carrying mechanism, said frame having a detachable connection with the extension, A', and the arms, F, having a fixed pivotal connection with the middle of the carrier-frame, and pivoted to the side of the main-frame extension, at points within the belts and pulleys aforesaid, and in advance of the cutter-shaft, as shown and described, whereby the arms serve as fulcrums and swinging supports for the carrier-frame, and also as means for holding the latter in its folded position, the same, when in reversed or folded position, extending over the cutter-shaft as specified.

WILLIAM MCCALED.

Witnesses:

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