W. H. BASSETT.

Band Cutter and Feeder for Thrashing-Machines.

No. 212,583. Patented Feb. 25, 1879.

Fig. 1.

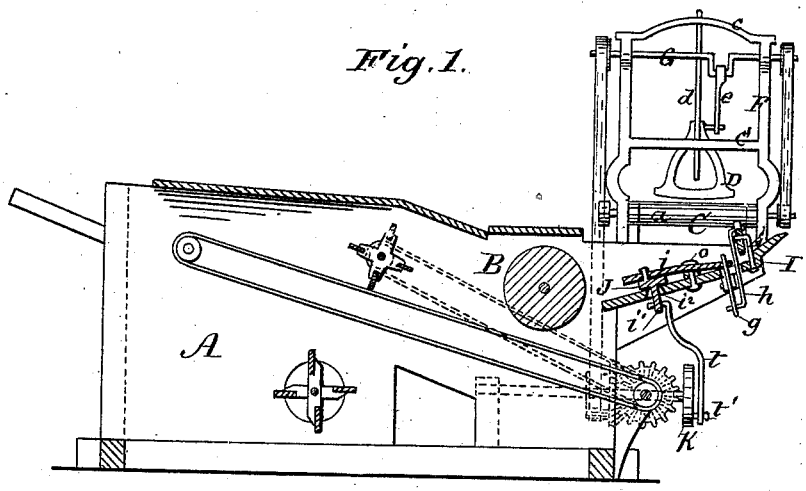
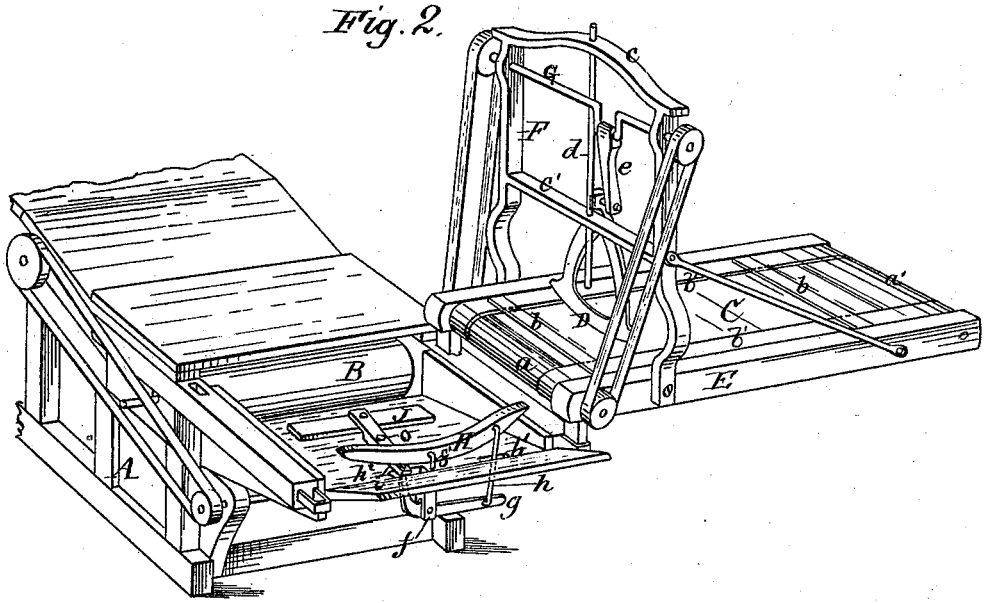


Fig. 2.



Witnesses:

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UNITED STATES PATENT OFFICE.

WILLIAM H. BASSETT, OF KOKOMO, INDIANA.

IMPROVEMENT IN BAND-CUTTER AND FEEDER FOR THRASHING-MACHINES.

Specification forming part of Letters Patent No. **212,583**, dated February 25, 1879; application filed November 18, 1878.

To all whom it may concern:

Be it known that I, WILLIAM H. BASSETT, formerly of Burlington, Kansas, now of Kokomo, Howard county, and State of Indiana, have invented certain new and useful Improvements in Band-Cutter and Feeder for Thrashing and Separating Machines, of which the following is a full, clear, and exact description.

This invention relates to thrashing-machines and grain-separators, and is designed for the purpose of accurately and expeditiously cutting the bands surrounding sheaves of grain, and also to evenly and uniformly convey the same, in a loose condition, to the thrashing-machine, and has for its object the saving of help in the operation of the machine.

To this end my invention consists in the novel construction of mechanism for operating the band-cutting attachment, and also in the mechanism for evenly presenting the loosened sheaves to the thrashing-cylinder, as will be hereinafter more fully described, reference being had to the accompanying drawings, in which—

Figure 1 is a sectional side view of my invention, and Fig. 2 a perspective view of the same.

To enable those skilled in the art to which my invention appertains to make and use it, I will now proceed to describe the manner in which the same is or may be carried into effect.

In the drawings, A represents the frame of a thrashing-machine, which is provided with an extension, I, as seen in the drawings, and is slightly inclined toward the thrashing-cylinder B, which may be of any suitable construction. Upon this extension I is placed a distributing-bar, H, which has a rocking motion, and is suitably secured in position near the end and in the center of said extension by means of a bolt, f', or its equivalent, passing through its center, as seen in the drawings. A bracket, f, is secured underneath the extension I, which is slotted at its end. Within this slotted end is loosely pivoted a bell-crank, g. A connecting-rod, h fastened to one end of said bell-crank, passes through a slot, h^1, in the extension I, and is suitably connected with the distributing-bar H, near its end. The other end of said bell-crank passes up through a slot, h^2, also in the extension I, and is suitably attached to one end of lever i. This lever i is pivoted centrally at o to the bottom of the extension I. The other end of lever i is secured to a bar, J, which has a horizontal reciprocating motion, and serves to evenly present the loosened stalks of grain to the thrashing-cylinder. At its under side is a projection, i^1, which passes through a slot, i^2, in the extension I. To this projection i^1 is attached a pitman-rod, t, the other end of which is suitably fastened to a disk, K, by means of a crank-pin, t^1, as seen in the drawings. Said disk K is rigidly secured to the end of a rod which is attached to the side of the machine by means of a bracket, within which this rod revolves.

A table, E, is arranged to be suitably adjusted to either side of the machine. This table E is provided at each end with revolving cylinders a a', upon which turns the feed-apron C, which conveys the sheaves of grain to the thrashing-machine. Said feed-apron is composed of straps or chains b', or their equivalent, having cross-bars b at suitable spaces apart, as shown in the drawings.

To the table E is rigidly secured and braced a frame, F, of metal or any suitable material. This frame is composed of two cross-bars, c c', and a crank-shaft, G, arranged as shown in the drawings. To this crank-shaft G is attached a suitable connecting-rod, e, the lower end of which is pivoted near the top of the reciprocating cutter D, which serves to cut the bands surrounding the sheaves of grain that are conveyed to the thrashing-machine. The reciprocating cutter or its equivalent, of any suitable configuration, is suspended above the feed-apron C from the crank-shaft G, and moves up and down during the motion of the belts.

To prevent play sidewise of the said knife or saw, I have combined with it a vertical rod or pin, d, the lower end of which passes through a perforation in the center of cross-bar c', and the upper end through a perforation in the center of cross-bar c, as illustrated in the drawings.

Crank-shaft G and cylinders a a' are provided with pulleys at each end, in case of the table and its frame being adjusted to either side of the thrashing-machine.

Motion is imparted to the crank-shaft G and

the feed-apron C by a suitable belt from the driving-mechanism.

Having described my said invention, and the manner in which the same is or may be carried into effect, what I claim, and desire to secure by Letters Patent, is—

1. The combination, with a thrashing or separating machine and a band-cutting attachment, of a distributer composed of a rocking bar and a horizontally-reciprocating bar, operating together as shown and set forth, for presenting the stalks to the thrashing-machine, in the manner as set forth.

2. The combination, with an inclined extension on the thrashing-machine, of the horizontal bar, located just above the upper surface of said extension, and having a reciprocating motion beneath the grain, across the line of feed, substantially as described.

3. The herein-described distributer or evener, consisting of a distributing-bar having a rocking motion, and a horizontally-reciprocating bar adapted to operate in connection therewith, substantially as set forth.

4. In a thrashing or separating machine, the combination, with the herein-described evener or distributing device, of a feeding-apron, arranged as shown, and a reciprocating cutter, located in vertical frame above the feeding-apron, as and for the purposes specified.

5. The combination, with a thrashing-machine, of the following elements, viz: an inclined platform, an evening device consisting of a bar having a rocking motion, a horizontally-reciprocating bar arranged to operate in connection therewith, a feeding-apron arranged at the side of said platform, and a reciprocating cutter, substantially as set forth.

6. A frame having at its ends rollers arranged to operate an endless feeding-apron, and having secured at the side thereof a vertical frame, in bearings in the upper end of which is a revolving crank adapted to reciprocate a suitable cutter, and provided with cross-pieces, in which a guide-pin to keep the cutter stationary moves, as described.

7. In a thrashing and separating machine, the combination of the table F, frame E, crank-shaft G, connecting-rod *e*, guide pin or rod *d*, reciprocating cutter D, feed-apron C, cross-bars *c c'*, cylinders *a a'*, arranged and operated for the purposes herein set forth.

In testimony whereof I have hereunto set my hand this 11th day of November, A. D. 1878.

WM. H. BASSETT.

Witnesses:

RICHARD TYLER,

JOHN his + mark. BASSETT.