B. & B. F. JACKSON.

GRAIN AND STRAW CARRYING ATTACHMENT FOR SEPARATORS.

No. 100,532. Patented Mar. 8, 1870.

Fig. 1.

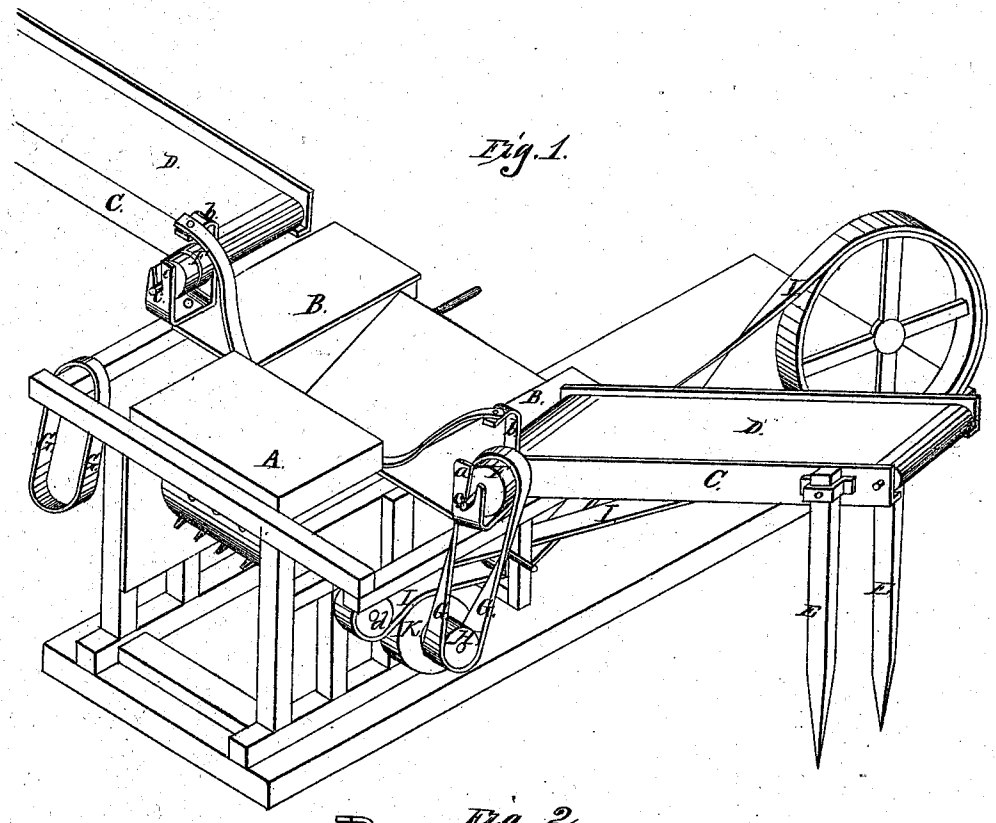
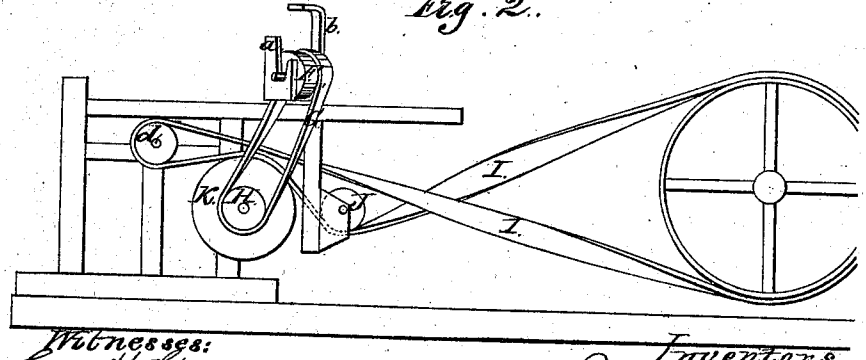


Fig. 2.



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UNITED STATES PATENT OFFICE.

BYRON JACKSON AND BENJAMIN F. JACKSON, OF WOODLAND, CALIFORNIA.

IMPROVEMENT IN GRAIN AND STRAW CARRYING ATTACHMENT FOR SEPARATORS.

Specification forming part of Letters Patent No. **100,532**, dated March 8, 1870.

To all whom it may concern:

Be it known that we, BYRON JACKSON and BENJAMIN F. JACKSON, both of Woodland, county of Yolo, State of California, have invented an Improved Grain and Straw Carrying Attachment for Separators; and we do hereby declare the following description and accompanying drawings are sufficient to enable any person skilled in the art or science to which it most nearly appertains to make and use our said invention or improvements without further invention or experiment.

The nature of our invention is the construction of an improved device designed to carry a supply of unthrashed straw from the stack to the separator, so that the labors of the feeder are lessened somewhat, and the machine can be kept constantly supplied by a much less number of men on the stack than formerly, thus increasing materially the amount of work that can be done by the machine.

The arrangement of the parts with relation to any separator is such that they can be easily attached.

It consists of a spout of sufficient length, with a carrying-belt moved by a pulley, which is connected directly with the machine, the spout extending to the stack at one end, while the other rests upon the feeder's table, and is supported by a swivel at one side, so that it can be moved to any position without deranging the parts.

When the machine stands between two stacks, it will be necessary to employ two carriers—one upon each side of the machine.

To more fully explain our invention, reference is made to the accompanying drawings, forming a part of this specification.

A is a part of a separator containing the thrashing-cylinder, and B B are the feeding-tables—one on each side—the feeder standing in the space between them and before the throat of the machine. The spouts C C extend from the tables B to the stacks on each side, and support the carrying-belts D D. Two legs, E E, support the ends of each spout, their lower ends being driven into the stack, while the upper ends pass through staples in the sides of the spouts, and are there fastened by set-screws or other device, so that as the stack is gradually lowered the spouts may also be depressed to be always within easy working distance. The carrying-belts are mounted in the usual manner, and driven by a pulley, F, at the inner end. The shaft *e* of this pulley rests in open slots in the sides *a b* of a frame or standard, which is pivoted at the bottom and top, as shown, so that the spout may be carried around this point, as a center to different parts of the stack. The belt G runs from the pulley F to a pulley, H, which is driven by the main belt I. This is accomplished by passing the lower part of the belt beneath a tightening-pulley, J, and thence directly over a friction-pulley, K, which is mounted on a shaft extending across the machine, and carrying at its outer ends the pulleys H. From this the belt passes around the pulley *d* of the thrashing-cylinder, as usual. We are thus enabled to drive the carrying-belts in the most direct manner, and without too much extra machinery. It also renders it unnecessary to drive them from other shafts, which may already have all the attachments which it is possible for them to drive.

By using fast and loose pulleys at F, and placing the levers within easy reach of the feeder, either of the grain-belts may be stopped at will.

When the machine is to be moved, the belts G are slipped off and the shafts of the pulleys F lifted out of the slots in the standards *a* and *b*, after which the spouts may be transported in any convenient manner to the next stopping place, where a few moments suffice to set the machine up again ready for work.

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

1. The slotted standards *a* and *b*, supporting the shafts C, and turning about vertical axes, to allow the spouts to be adjusted, substantially as herein described.

2. In combination with the device above claimed, the arrangement of the pulleys J and K, for driving the pulleys H and F, to give motion to the carrying-belt, substantially as described.

In witness whereof we have hereunto set our hands and seals.

BENJAMIN F. JACKSON. [L. S.]
BYRON JACKSON. [L. S.]

Witnesses:
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