J. M. WILLIAMS.

GRAIN-SEPARATORS.

No. 180,738. Patented Aug. 8, 1876.

Fig. 1.

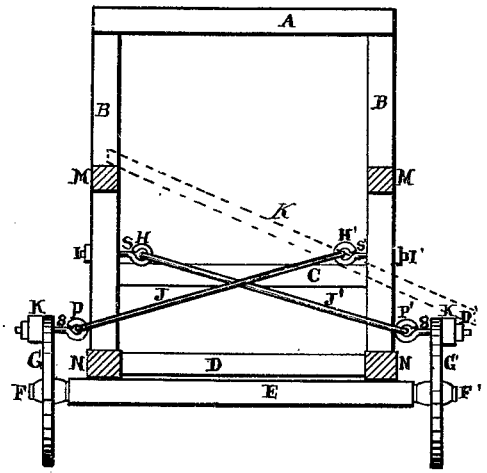
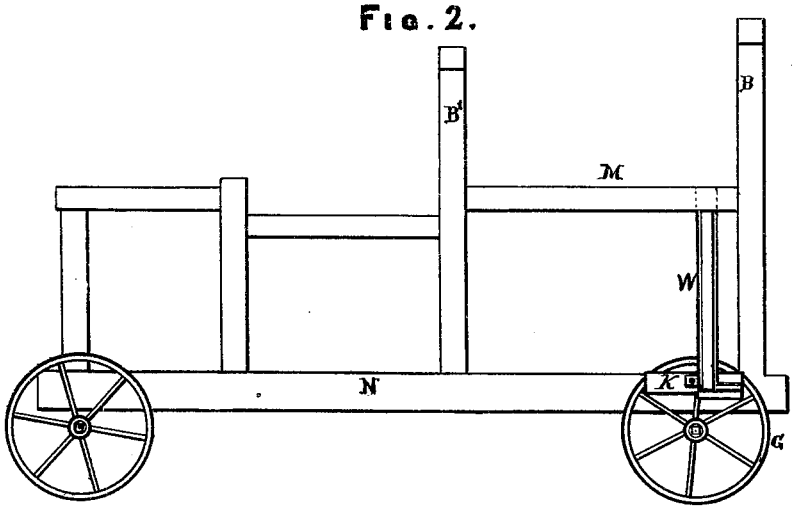


Fig. 2.



WITNESSES:

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UNITED STATES PATENT OFFICE.

JOHN M. WILLIAMS, OF SNACHWINE, ILLINOIS.

IMPROVEMENT IN GRAIN-SEPARATORS.

Specification forming part of Letters Patent No. **180,738**, dated August 8, 1876; application filed October 29, 1875.

To all whom it may concern:

Be it known that I, JOHN M. WILLIAMS, of Snachwine, in the county of Putnam and State of Illinois, have invented a new and useful Improvement in Anchors for Grain-Separators, of which the following is a specification:

The present invention relates to means for anchoring the frame of a thrashing-machine separator and the wheels thereof to prevent a lateral motion.

The nature of my invention consists in rods which are jointed to opposite sides of the separator-frame, and extend, crossing each other, to the sills of the frame, at which points they are provided with jointed extension-rods, which pass outward between the spokes of the wheels of the separator, and through clamping-blocks, which, by means of nuts and screws on the ends of the last-mentioned rods, are caused to hold the separator-frame and wheels firmly together, so that when the wheels are staked to the ground the shaking of the riddles cannot communicate any considerable motion to the separator-frame. The means now used to stay the separator-frame consist of simple braces, the lower ends of which are placed on the ground, and the upper ends put against the sides of the separator. These are objectionable in marring the efficiency of the separator, in their being in the way of manipulating the machine, and in that they cannot be used when the separator is placed close by or between two stacks of grain. I obviate these objections by means of my device, and, at the same time, prevent the separator from having a longitudinal movement by the strain of the belt or otherwise.

In the drawings, Figure 1 is a transverse sectional elevation of the frame of a grain-separator to which my anchoring devices are attached; Fig. 2, a longitudinal elevation of the same frame, showing the clamping-block on one wheel, also the grain-spout in position on the block.

N represents the longitudinal sills of the separator-frame; B B, the end posts, and B′ B′ the middle posts of the same. M represents girts running from posts B to posts B′. E is one axle of the vehicle on which the frame is mounted, and G are the wheels, all of which are of ordinary construction, and in common use. H and H′ represent staples put through the posts B B and secured by nuts I I′. J J′ represent iron rods swiveled to the staples H H′, which cross each other and terminate in eyes P P′. To these eyes are swiveled short rods 8 8, which pass through between the spokes of the wheels and through clamping-blocks K K, and are drawn tightly to the wheels, so as to bind them and the separator-frame firmly together, to prevent both from having a lateral and longitudinal movement. The last-mentioned rods being jointed is important; otherwise the attachment to the wheels could not be made.

When the separator is to be moved from place to place the clamping-blocks are to be removed, and the short rods turned inward, so that the outer ends of the rods J J′ will rest on the sills N. A grain-discharge spout, W, has a support at its upper end, on a girt, M, or other suitable place, and its lower end is bolted fast to one of the clamping-blocks K, that it may convey the separated grain to sacks or other desired receptacle. The grain may be emptied at the back or front of the wheel by inclining the block in the direction required. The grain, if to be discharged at the opposite side of the separator, can be delivered at that point by reversing the clamping-blocks, carrying the block attached to the spout with it. This saves the trouble of detaching the spout from the block. As an equivalent device, strut or pushing rods may be used instead of rods J J′, bearing against clamping-blocks on the inside of the wheels, holding them rigidly outward.

I claim and desire to secure by Letters Patent—

The combination of the staples S S′, rods J J′, short rods 8 8, clamping-blocks K, wheels G G′, and frame B B, as and for the purpose set forth.

JOHN M. WILLIAMS.

Witnesses:
W. H. WILLIAMS,
E. D. COOK.