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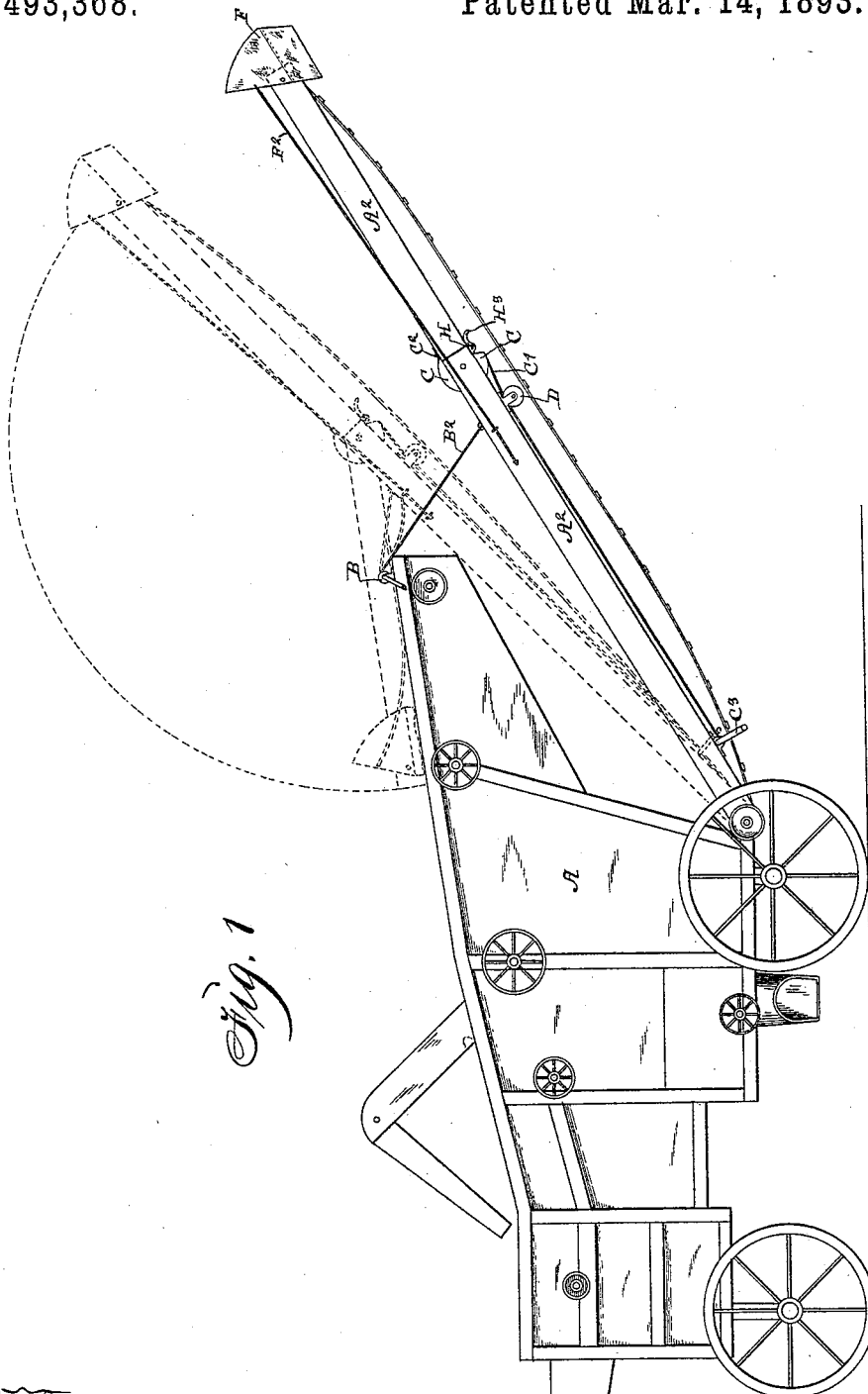
2 Sheets—Sheet 1.

G. W. PARSONS.

FOLDING STRAW CARRIER FOR THRASHERS.

No. 493,368.

Patented Mar. 14, 1893.



Witnesses:  
H. J. Sankey.  
J. Ralph Orwig.

Inventor: George W. Parsons  
By Thomas G. Orwig, Atty.

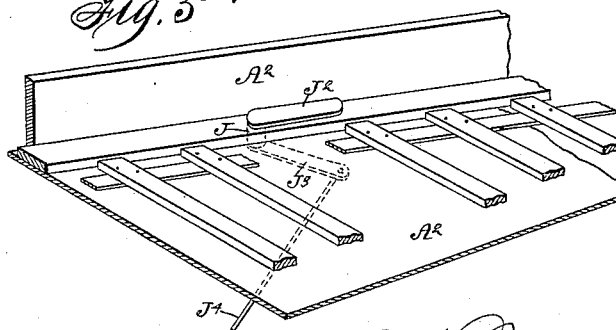
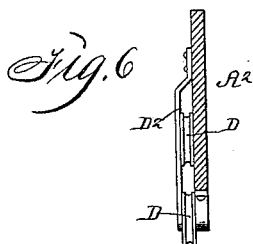
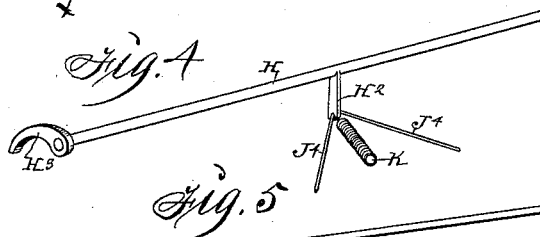
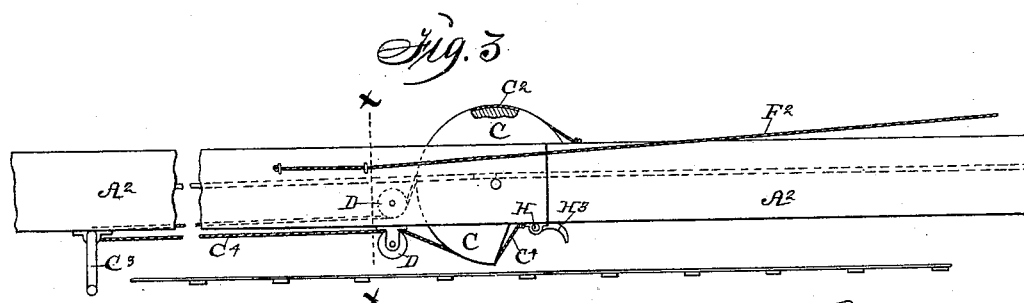
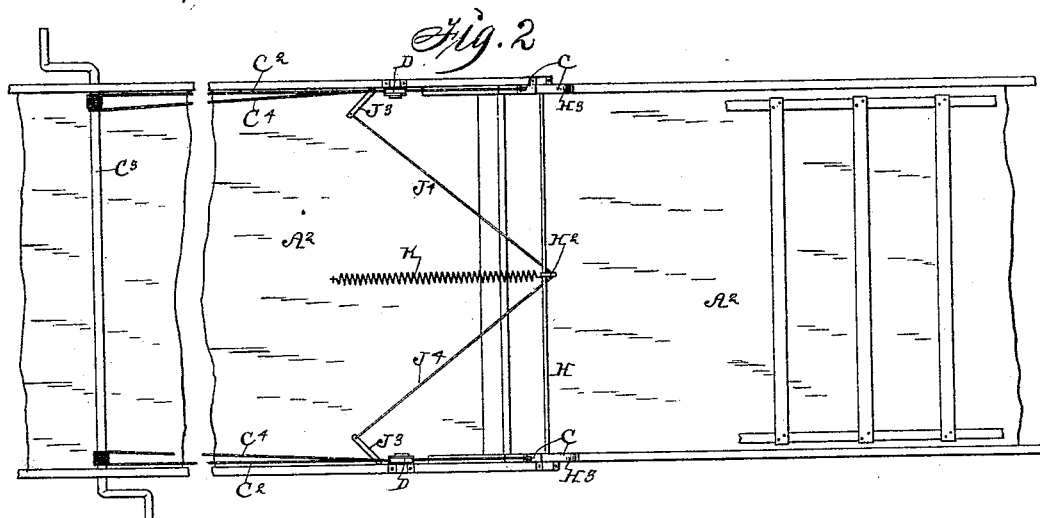
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Witnesses:  
W. J. Sankey.  
J. Ralph Orwig.

Inventor: George W. Parsons,  
By Thomas G. Orwig, Attorney.

# UNITED STATES PATENT OFFICE.

GEORGE W. PARSONS, OF NEWTON, IOWA, ASSIGNOR OF ONE-HALF TO  
W. C. BERGMAN, OF SAME PLACE.

## FOLDING STRAW-CARRIER FOR THRASHERS.

SPECIFICATION forming part of Letters Patent No. 493,368, dated March 14, 1893.

Application filed September 23, 1892. Serial No. 446,875. (No model.)

### *To all whom it may concern:*

Be it known that I, GEORGE W. PARSONS, a citizen of the United States of America, residing at Newton, in the county of Jasper and State of Iowa, have invented a new and useful Folding Straw-Carrier for Thrashers, of which the following is a specification.

The object of my invention is to provide a straw carrier in which the upper section may be folded over the thrashing machine by a person standing upon the ground, the hood on the outer end of the carrier frame be automatically placed in proper position relative to the top of the thrasher and the endless carrier be automatically held close to the carrier frame when folded.

My invention consists primarily in the construction and arrangement of the outer section of the carrier frame, and the means for automatically folding the same over the thrasher.

My invention consists further in the construction and arrangement of the mechanism for automatically holding the endless carrier to the carrier frame when the latter is folded upon the thrasher.

My invention consists further in the arrangement of the means for automatically placing the hood of the carrier in proper position when the carrier is folded back on the thrashing machine, and in certain other minor details of construction of parts hereinafter set forth, pointed out in my claims and illustrated in the accompanying drawings in which—

Figure 1 is a side elevation of a thrashing machine and the folding carrier attached thereto as in practical use the dotted lines therein showing the position the carrier will assume when being folded. Fig. 2 is a bottom view of a portion of the straw carrier. Fig. 3 is a side view of the same with portions broken away to reveal hidden parts. Figs. 4 and 5 are perspective views of detached portions of the straw carrier and Fig. 6 is an enlarged, detail, transverse sectional view through the line  $x-x$  of Fig. 3.

Referring to the accompanying drawings the reference letter A is used to designate the thrashing machine and A<sup>2</sup> the straw carrier

pivottally attached at its lower end to the thrasher and hinged in its central portion in the ordinary way.

Means are provided whereby the straw cover may be adjusted to any desirable angle consisting of a windlass B mounted on the top of the rear end of the thrasher and a rope B<sup>2</sup> wound thereupon and attached to the carrier.

C C designate disks fixed to the lower end portion of the upper carrier section and C<sup>2</sup> C<sup>2</sup> are ropes fixed to the carrier frame, passed over the said disks and wound upon a windlass C<sup>3</sup> which is mounted in bearings fixed to the lower end portion of the lower carrier section and C<sup>4</sup> C<sup>4</sup> are ropes fixed to the under edges of the carrier passed under the disks C C and wound upon the windlass C<sup>3</sup> in an opposite direction from that in which the ropes C<sup>2</sup> C<sup>2</sup> are wound. These ropes are held partially wound upon said disks by means of the direction pulleys D D mounted in the brackets D<sup>2</sup> and having the ropes C<sup>2</sup> and C<sup>4</sup> extended between them so that a rotation of the windlass C<sup>3</sup> will either elevate or lower the upper carrier section.

F designates a hood of common form pivottally attached to the outer end of the carrier and arranged to automatically assume a position to be folded when the upper carrier section is folded back upon the thrasher.

F<sup>2</sup> designates a rope fixed to the side of the hood and to the lower carrier section to hold the hood in proper position when the carrier is extended, and which when the carrier is folded will slacken and allow the hood to assume a proper position by gravity.

A frequent cause of trouble has been found heretofore, in folding carriers, on account of the endless carrier becoming slackened on the shortened side to such an extent as to interfere with and become caught in other portions of the machine, to obviate this difficulty I have constructed an automatically operating device to engage the endless carrier and hold it close to the carrier frame when the said frame is being folded. This mechanism comprises a rock shaft H mounted in the upper end portion of the lower carrier section and provided with an upwardly extending arm H<sup>2</sup> and is

the approximate central portion, and the cams  $H^3$  on its end portion in position to engage the under edges of the upper carrier section.

J designates rock shafts extended through the bottom of the lower carrier sections and having the arms  $J^2$  and  $J^3$  fixed respectively to their upper and under ends the one above and the other below the carrier frame.  $J^4$  designates rods connecting the arm  $H^2$  with the arm  $J^3$ .

K designates a coil spring fixed at its one end to the under side of the carrier frame below the rock shaft H and having its one end attached to the arm  $H^2$  to normally hold the covers  $H^3$  in close engagement with the edges of the outer carrier section. It will now be obvious that when the upper carrier section is moved relative to the lower one the cams will follow the upper one by means of the force of the spring, this will move the arms  $J^2$  to engage the edges of the endless carrier and hold it securely on the carrier frame.

Having thus described the construction and function of each part in its turn, what I claim as my invention, and desire to secure by Letters Patent, is—

1. The combination with a folding straw-carrier frame having an endless carrier thereon, of automatically operating mechanism for holding the upper central portion of the endless carrier to the frame, when the same is being folded.

2. An improved straw conveyer comprising a suitable frame having an endless carrier thereon hinged in its approximate central portion, means for operating the top section of the carrier frame to raise or lower it from the ground surface, and automatically operating means for holding the upper portion of the endless carrier to the frame when the same is being folded.

3. An improved straw conveyer comprising a suitable frame, pivotally attached to a thrasher at its lower end, and hinged near its central portion, and having an endless carrier mounted thereon, mechanism adapted to be operated from the top of the thrashing machine for adjusting the incline of the conveyer frame, means for folding or unfolding the conveyer frame from the ground surface, and automatically operating means for holding the upper portion of the endless carrier to the frame when the same is being folded.

4. An improved straw conveyer, comprising a suitable frame pivotally attached to a thrasher at its lower end and hinged near its

central portion and having an endless carrier mounted thereon, mechanism adapted to be operated from the top of the thrashing machine for adjusting the incline of the conveyer frame, means adapted to be operated from the ground surface for folding or unfolding the conveyer frame, automatically operating means for holding the upper portion of the endless carrier to the frame when the same is being folded, a hood on the outer end of the conveyer and the means shown and described where by it may be automatically placed in proper position when the frame is folded.

5. The combination with a folding straw carrier frame having an endless carrier thereon, of the automatically operating mechanism substantially as shown and described, for holding its upper central portion of the endless carrier to the frame when the same is being folded for the purposes stated.

6. An improved straw conveyer, comprising a suitable carrier frame attached to a thrasher, hinged near the central portion and having an endless carrier mounted thereon, the mechanism substantially as shown and described for folding or unfolding the carrier frame from the ground surface, and the automatically operating mechanism, substantially as set forth, for holding the upper central portion of the endless carrier to the frame when the same is being folded.

7. An improved straw conveyer, comprising a suitable carrier frame pivotally attached to a thrasher at its lower end and hinged near its central portion and having an endless carrier mounted thereon, mechanism adapted to be operated from the top of the thrashing machine for adjusting the machine of the conveyer, the mechanism substantially as shown and described for folding or unfolding the carrier frame from the ground surface, the automatically operating mechanism substantially as set forth, for holding the upper central portion of the endless carrier to the frame when being folded, and the hood on the outer end of the conveyer having the means shown and described whereby it may be automatically placed in proper position when the frame is folded, all arranged and combined substantially in the manner set forth and for the purposes stated.

GEORGE W. PARSONS.

Witnesses:

W. O. MCELROY,  
HENRY SILWOLD.