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FOLDING APRON MECHANISM FOR SELF FEEDERS

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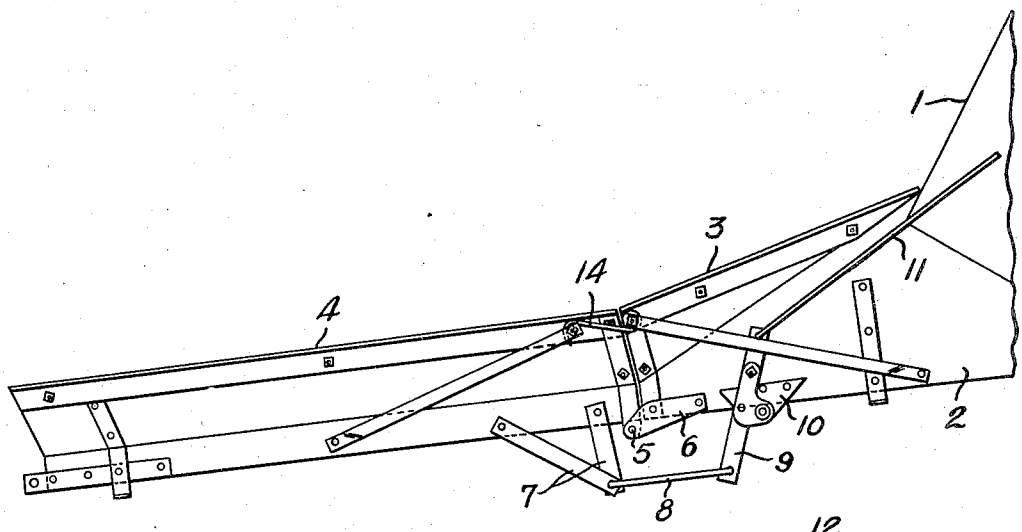

FIG. 1.

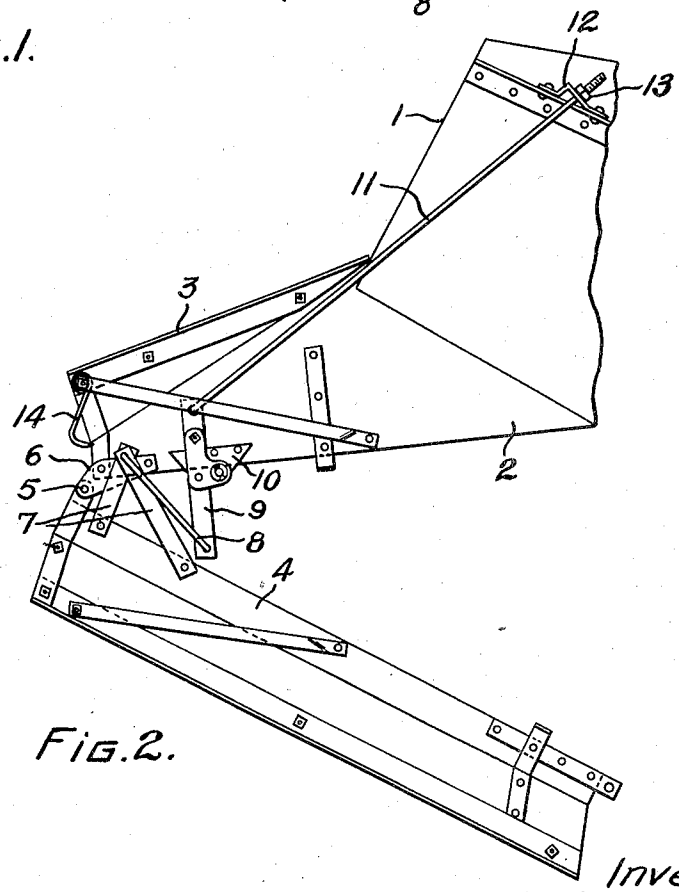

FIG. 2.

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FOLDING APRON MECHANISM FOR SELF-FEEDERS

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Application June 16, 1933, Serial No. 676,155
In Canada October 5, 1932

1 Claim. (Cl. 193—2)

The present invention relates to improvements in a folding apron or carrier mechanism for self-feeding threshing machines, and it consists in providing a carrier made of two sections suitably hinged together, one of said sections being adapted to fold under the other section, and of means to hold said folding section in its extended and folded positions. For this purpose, the folding section is provided with a bracket which extends below its bottom, said bracket being connected to the lower end of an eccentrically pivoted arm or lever, mounted upon the other section of the carrier, by means of a connecting rod, the upper end of said arm or lever being pivotally secured to one end of an arm or rod which is adjustably mounted in a suitable bracket, preferably, located adjacent the top of the side wall of the threshing machine.

The main object of this invention is to provide a folding carrier which is readily operated in a close or open position, without any effort on the part of the operator. A further object is to provide a device of this character which is of simple and inexpensive construction.

In the accompanying drawing:—

Figure 1 is a segmentary side elevation view of a threshing machine with carrier shown in its extended or open position; and

Figure 2 is a similar view to Figure 1, the folding section of the carrier being shown in its closed or folded position.

Like numerals of reference indicate corresponding parts in each figure.

Referring to the drawing, 1 is a portion of the side wall of a threshing machine, and 2 is the usual carrier, which is usually pivotally mounted upon said threshing machine.

The carrier 2 is formed in two sections 3 and 4 respectively, said section 4 being hinged at 5 upon the bracket 6. This section 4 is foldable (as shown in Figure 2 of the drawing) and to facilitate this operation, a bracket 7 is mounted upon its side, and extends below the bottom thereof, and to the lower end of said bracket is pivotally mounted one end of the connecting rod 8, the other end of which is also pivotally connected to the lower end of the lever-member 9, which extend in alignment with said bracket 7.

The lever-member 9 is eccentrically mounted upon the bracket 10, which is fixedly mounted upon the carrier section 3, and extends beyond said bracket, its upper free end being connected to a rod 11, which is adjustably mounted in a bracket 12, fixedly secured upon the side wall 1 of the threshing machine. The rod 11 passes through a suitable opening provided in said bracket and is adjustably secured therein by means of a nut 13 which engages the threaded upper end of said rod.

When in its extended position, the carrier sections 3 and 4 may be firmly secured, in this position, by means of a suitable hook 14 or by any other suitable means.

To close said carrier section 4, the hook 14 is removed and said section pressed downward and under the carrier section 3. This is readily performed without any exertion, whatsoever, by the operator. When in its closed position, the carrier section 4 is held in that position by means of the eccentrically mounted lever 9.

Only a preferred form of the invention is herein described and illustrated, but it is understood that modifications and alterations may be made, without departing from the spirit and scope of the following claim of novelty.

What we claim as our invention is:—

A folding carrier mechanism for self-feeding threshing machines, comprising two carrier sections suitably hinged together, the folding section having mounted thereon a bracket that extends below the bottom thereof and the other section having a lever which is eccentrically and pivotally mounted intermediate of its length upon a suitable bracket mounted thereon, one end of said lever extending below the bottom of said carrier and pivotally connected to the bracket mounted upon the folding section by means of a connecting rod, the other end of said lever being pivotally connected to one end of a rod, the other end of which passes through a suitable bracket secured upon the frame of said threshing machine, and adjustably secured therein.

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