

T. O. MARSTON.
ELEVATOR HOOD FOR HARVESTER HEADERS.
APPLICATION FILED MAY 17, 1909.

962,232.

Patented June 21, 1910.

2 SHEETS—SHEET 1.

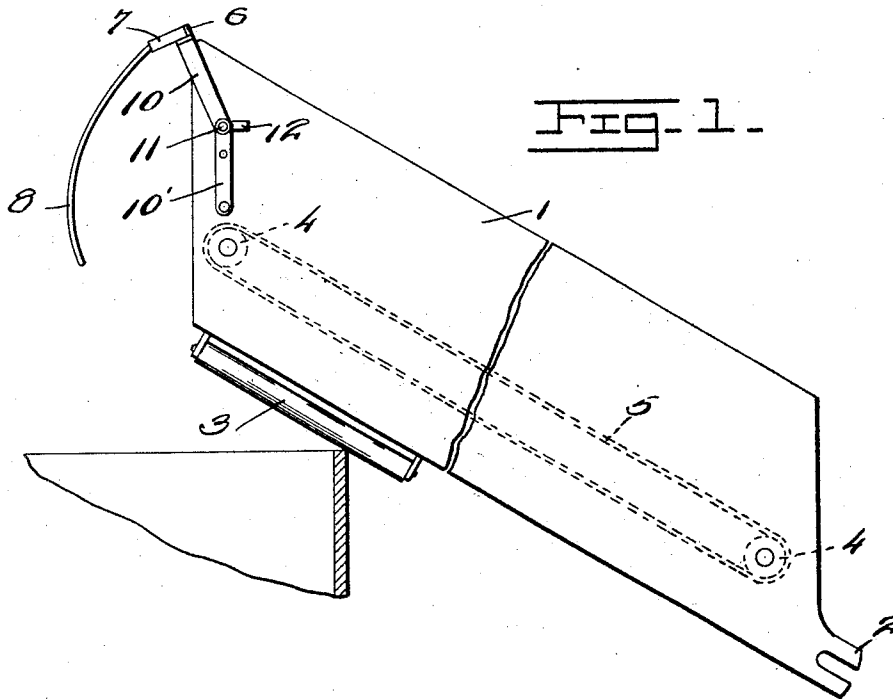


Fig. 1.

Fig. 2.

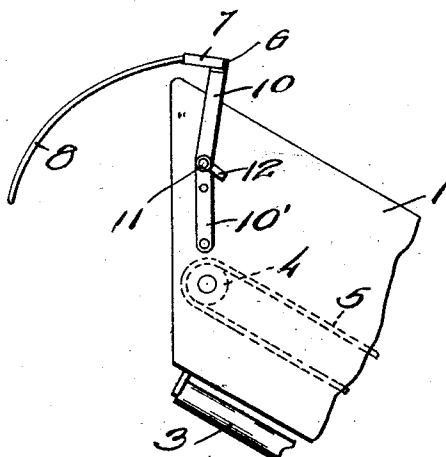
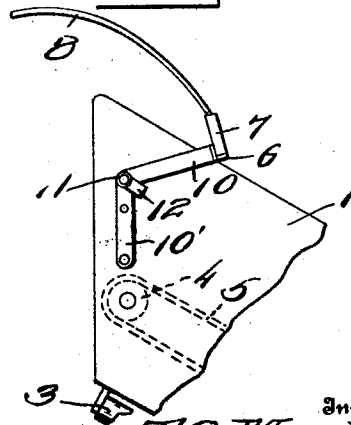


Fig. 3.



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2 SHEETS—SHEET 2

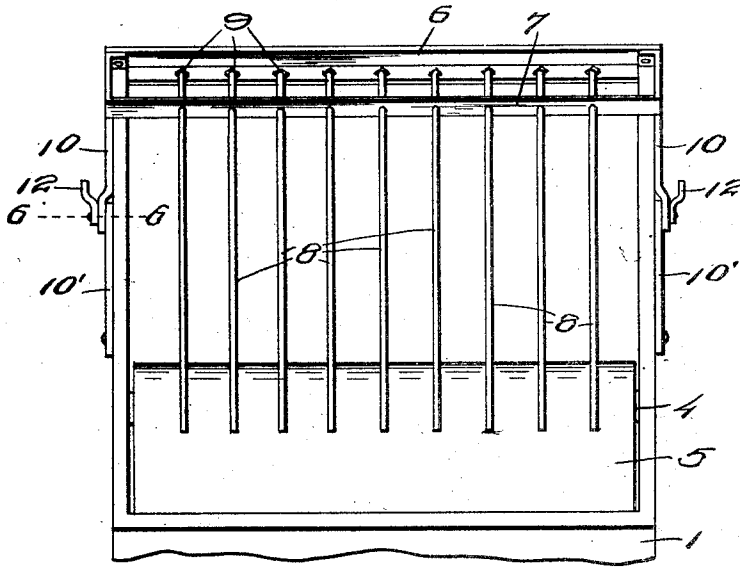


Fig. 4.

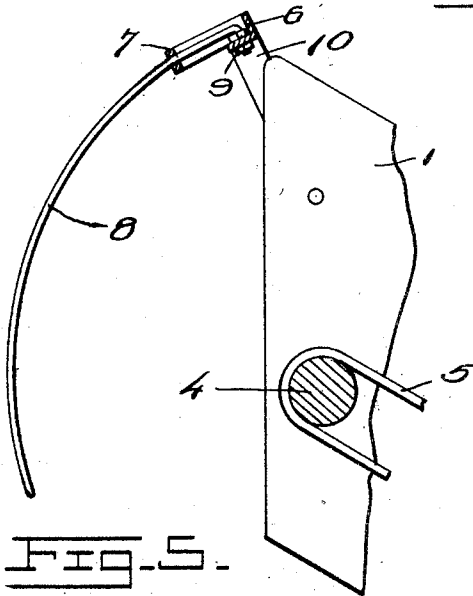


Fig. 5.

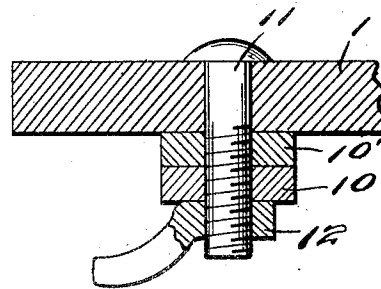


Fig. 6.

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UNITED STATES PATENT OFFICE.

THOMAS O. MARSTON, OF CLAFLIN, KANSAS.

ELEVATOR-HOOD FOR HARVESTER-HEADERS.

962,232.

Specification of Letters Patent. Patented June 21, 1910.

Application filed May 17, 1909. Serial No. 496,464.

To all whom it may concern:

Be it known that I, THOMAS O. MARSTON, a citizen of the United States, residing at Claflin, in the county of Barton and State of Kansas, have invented certain new and useful Improvements in Elevator-Hoods for Harvester-Headers, of which the following is a specification.

This invention relates to elevator hoods for harvester headers, and has for its object to provide a hood adjustably mounted upon the rear end of the elevator frame whereby grain may be quickly loaded upon a suitable transporting vehicle.

Another object is to provide a hood comprising an angle bar frame in which is removably secured a plurality of rods or lines, which may be so adjusted that the depositing of the grain within the vehicle is insured.

A further object is to provide a hood of the character described which is securely held in an intermediate position by means of suitable link bars secured to the hood frame and to the elevator frame, the ends of which are secured together by means of suitable clamping nuts, threaded upon the ends of bolts turned by the link bars, whereby the hood may be thrown back into an inoperative position without the necessity of loosening the nuts.

With these and other objects in view, the present invention consists in the combination and arrangement of parts as will be herein-
after more fully described and particularly pointed out in the appended claim, it being understood that changes in the specific structure shown and described may be made within the scope of the claim without departing from the spirit of the invention.

In the drawings forming a part of this specification and in which like numerals of reference indicate similar parts in the several views, Figure 1 is a side elevation of an elevator with my improved hood attached thereto in operative position, Fig. 2 is a similar view, a portion of the elevator being broken away, illustrating an intermediate position of the hood. Fig. 3 is a similar view, the hood being thrown backward into its inoperative position upon the elevator frame. Fig. 4 is an enlarged end view of the rear end of the elevator showing the manner of attaching the hood thereto, Fig. 5 is an

enlarged vertical section through the hood frame, Fig. 6 is a detail section taken on line 6-6 of Fig. 4.

Referring to the drawings, 1 indicates a grain elevator of an ordinary or approved form, and 2 the bearings of the same by means of which the elevator is attached to the rear end of the harvester.

3 indicates suitable rollers mounted upon the bottom of the elevator and at either side thereof, which are adapted to rotate upon the upper edge of the transporting vehicle when the same is being loaded. Mounted between the sides of the elevator and at either end thereof are the transverse rollers 4 upon which is carried the endless conveying belt 5. Any suitable means operable from the harvester may be employed for imparting rotary movement to the rollers.

Mounted upon the rear end of the elevator frame is my improved hood, which comprises the transverse angle bar 6, and the brace bar 7 which is projected some distance in advance of the angle bar and has its ends bent rearwardly and inwardly, said inturned ends being secured to either end thereof. The brace bar is perforated at spaced distances and is adapted to support a plurality of rods 8, the ends of which are extended at right angles through the angle bar and secured thereto by means of the nuts 9 disposed upon either side of the bar.

Secured to either end of the angle bar are links 10, which extend at right angles rearwardly therefrom and have their ends disposed upon plates 10' secured to either side of the elevator frame. Bolts 11 extend through the sides of the frame, and the engaged ends of the links 10 and plates 10' and have threaded upon their outer ends the tap nuts 12. When the hood is lowered into engagement with the elevator frame, the nuts 12 are loose upon the ends of the bolts. When, however, the hood is in an intermediate position, the nuts 12 are screwed up on the bolts 11 until the link 10 and the plates 10' are securely clamped together, thus sustaining the hood in the desired position. As the nuts 12 frictionally contact with the ends of the links, when it is desired to throw the hood back upon the frame into its inoperative position, it is not necessary to loosen the nuts 12, as the hood may be lifted, whereupon the nuts will move

therewith and be threaded outward upon the bolts, it being understood that the bolts 11 are held from rotation within the sides of the frame 1 and the plates 10'. Upon again lowering the hood, the last position at which it was secured will be the limit of its movement, as the nuts 12 will again be tightened upon the bolts by the movement of the hood.

Thus it will be seen that the hood may be quickly adjusted to any position desired by the operator, so that grain will be properly deposited in the transporting vehicle. As the rods 8 have their outer ends curved downwardly the grain will be suitably guided and any loss thereof prevented. The rods being removable from the hood frame, it will be readily seen that the same may be adjusted to any width of elevator frame. Heretofore, hoods of this character have been constructed of canvas which is secured to a suitable framework attached to the elevator frame. The operator assists in the removal of the grain from the end of the elevator when the loading of the vehicle is almost completed and he is obliged to use a pitch-fork or other handling tool, the tines of which would pierce the canvas and seriously damage the same, therefore constantly requiring repairs. By my improved construction of a hood, the tines of a fork may be readily inserted between the rods 8 and the grain rapidly and conveniently loaded upon the vehicle. My improved hood is also very simple and inexpensive to manufacture, may be readily secured upon any grain elevator, irrespective of the size thereof, and may be readily adjusted upon the same. It is moreover highly efficient in the performance of its functions, and of great durability in use.

Having thus described my said invention,

what I claim as new and desire to secure by United States Letters Patent is:

A hood frame of the character described, comprising an angle bar, a brace bar spaced therefrom, said brace bar having rearwardly turned ends, said rearwardly turned portions being bent inwardly and secured to one flange of said angle bar, said angle bar and brace bar being disposed in parallel relation and provided with spaced openings in alignment with each other, a plurality of rods extending through the brace bar, one end of each of said rods being bent at right angles through the other flange of the angle bar, securing nuts disposed upon said bent ends upon either side of the flange, the free ends of said rods being curved downwardly therefrom, links rigidly secured to the ends of said angle bar, a stationary supporting member having side walls, plates carried thereby, said links being offset from the side walls of said supporting member, bolts immovably mounted in said side walls and passing through said plates, said links being pivotally mounted on said bolts outside of said plates and being offset where connected so as to dispose the same in close proximity to the sides of the supporting member and adjusting nuts disposed on the outer ends of said bolts in frictional contact with the links whereby said frame may be disposed at different relative positions to the supporting member without independent movement of the securing nuts.

In testimony whereof I affix my signature, in presence of two witnesses.

THOMAS O. MARSTON.

Witnesses:

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ETTA WEST.