(No Model.) 2 Sheets—Sheet 1.

C. A. GIBBS.

BAG HOLDER.

No. 284,835. Patented Sept. 11, 1883.

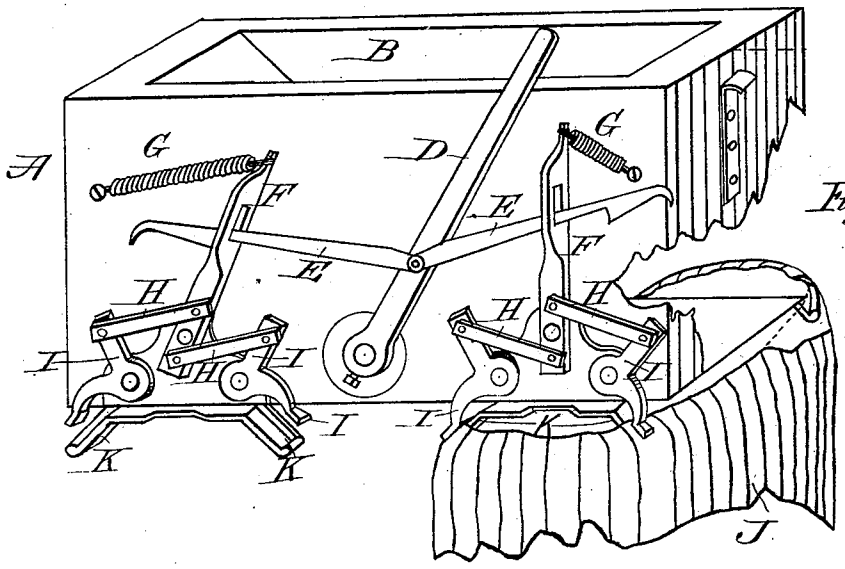
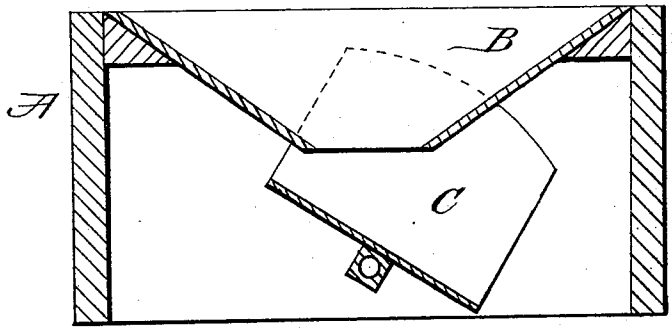


Fig 1.

Fig 2



Witnesses
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(No Model.) 2 Sheets—Sheet 2.

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Fig. 3.

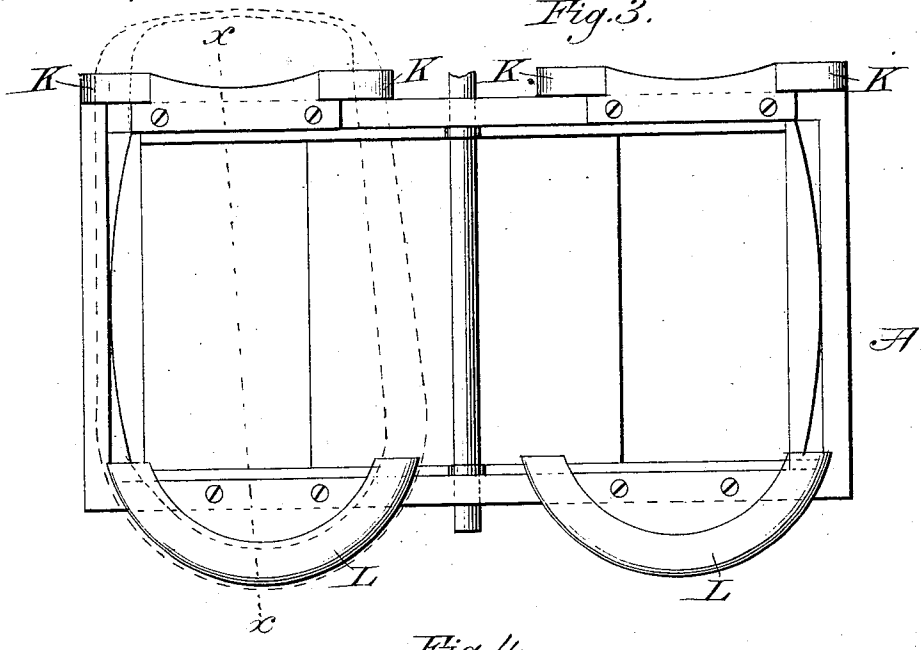
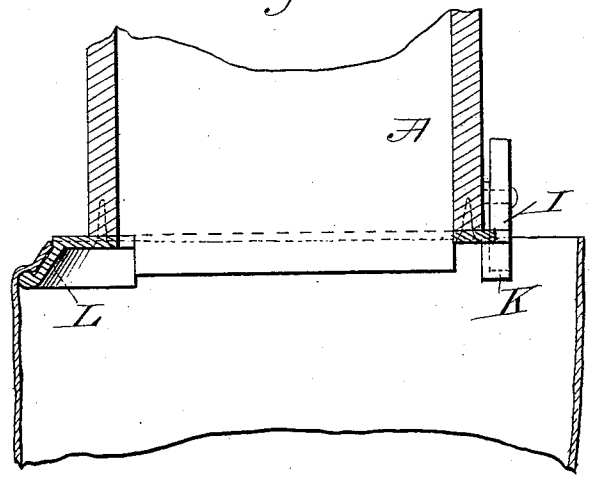


Fig. 4.



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UNITED STATES PATENT OFFICE.

CYRENUS A. GIBBS, OF SCHENECTADY, NEW YORK.

BAG-HOLDER.

SPECIFICATION forming part of Letters Patent No. 284,835, dated September 11, 1883.

Application filed June 12, 1883. (No model.)

To all whom it may concern:

Be it known that I, CYRENUS A. GIBBS, a citizen of the United States, residing at Schenectady, in the county of Schenectady and State of New York, have invented certain new and useful Improvements in Bag-Holders; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to improvements in bag-holders; and it consists in the construction and arrangement of parts, as hereinafter more fully described and claimed.

In the annexed drawings, illustrating the invention, Figure 1 is a perspective view of my improved grain-bagging machine. Fig. 2 is a vertical longitudinal section of the frame, hopper, and chute. Fig. 3 is a bottom plan view. Fig. 4 is a transverse section on the line *x x* of Fig. 3.

Like letters of reference indicate like parts.

A is a rectangular open-bottomed frame, composed of wood or other suitable material, and in the top of which is arranged a hopper, B, of cast-iron or some light but durable material. An oscillating chute or platform, C, is pivoted in the frame A, beneath the hopper B, and is provided with a handle or lever, D, that is arranged on the outer side of the frame, and by which the chute is tilted or turned to either end of the frame, as required. When turned or tilted to its fullest extent at one end, the opposite end of the chute will come in contact with the under side of the hopper B, and so prevent the escape of grain at that point, thus causing all of the grain to pass to the lowest end of the chute, whence it enters the bag or other receptacle arranged for its reception.

To the lever D are secured arms E E, that pass through slotted vibratory levers F F, which are pivoted to the outer side of the frame on one side. The upper ends of these slotted vibratory levers F F are connected to the frame by spiral springs G G. The levers F F are connected by links H H to pivoted dogs I I, that act in conjunction with the stationary dogs K K for clamping the edges of the bag J to be filled. The edges of the bag, besides being held between the dogs or clamps I I and K K, are further supported upon one of the semicircular flanges or bearing-plates, L L, that are attached to the opposite side of the frame A, as shown in Fig. 3.

In attaching the bag one side of its mouth is first passed over the flange L, as shown in Fig. 4, the mouth of the bag being then drawn tightly around the flange and secured by the clamps I K on the other side of the frame. These flanges not only afford an additional support, but serve to hold the mouth of the bag open while being filled. When an empty bag is placed in position for being filled—that is, with its edges over one of the flanges L and between the dogs I K—it will be secured by throwing the lever D toward said bag. This movement of the lever D disengages the hooked arm E from the vibratory lever F, and thereby enables the spring G to draw said lever F into a vertical or nearly vertical position, thus actuating the links H H, and causing them to force the clamping ends of the pivoted dogs I I down upon the edges of the bag, which is thus held firmly between the pivoted dogs I and stationary dogs K. The same movement of the lever D inclines or tilts the chute C, so that its lower end will come above the mouth of the attached bag. At the same time that one bag is secured and the chute is tilted above it, the bag at the opposite end of the machine, which had been previously filled, is released by the hooked arm E drawing on the vibratory lever F against the tension of the spring G, thus causing the links H H to rotate the dogs I I and disengage them from the edges of the bag. By moving the lever D from side to side the chute C is inclined alternately to either end of the machine, and the bags at the ends of the machine are alternately secured and released.

If it is desired to fasten a bag onto the machine at the end into which the grain is not passing, the bag is placed in position and the arm E is raised, either by the hand or by any suitable contrivance, so as to permit the hook or catch on the arm to pass through the slot in the lever F, and the dogs I I will then be

forced down upon the edges of the bag against the dogs K K by the spring G, acting through the lever F and links H H.

If it is not desired to attach bags or other similar receptacles to the machine, the springs G G may be released and the arms E E raised and held by any suitable means, so as to pass freely through the slotted levers F F without acting upon them, the receptacles being supported beneath the machine in any suitable manner and the lever D used simply to oscillate the chute.

This apparatus can be readily attached to any ordinary thrashing-machine, and affords a convenient means for bagging the grain delivered therefrom.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

In a bag-holder, the combination of the frame A, having hopper B and flanges L L, the oscillating chute C, lever D, having hooked arms E E, the vibratory levers F F, springs G G, links H H, pivoted dogs I I, and stationary dogs K K, substantially as shown and described.

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

CYRENUS A. GIBBS.

Witnesses:

E. J. VAN EPPS,

WM. W. WELLER, Jr.