(No Model.) 2 Sheets—Sheet 1.

J. HUBER.

BAG HOLDER.

No. 365,686. Patented June 28, 1887.

Fig. 1.

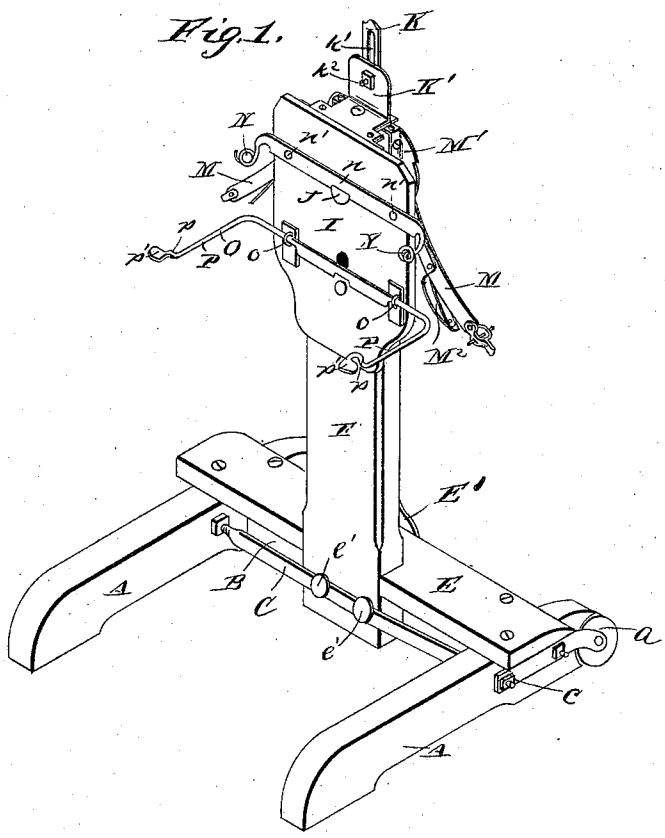
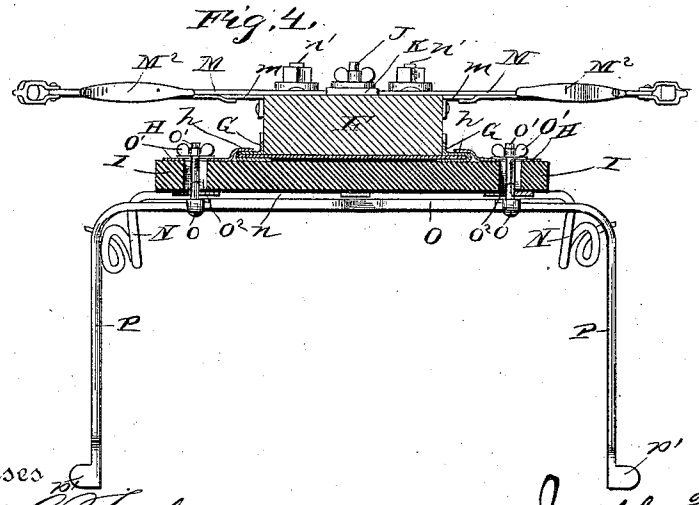


Fig. 4.



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(No Model.) 2 Sheets—Sheet 2.

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Fig. 2.

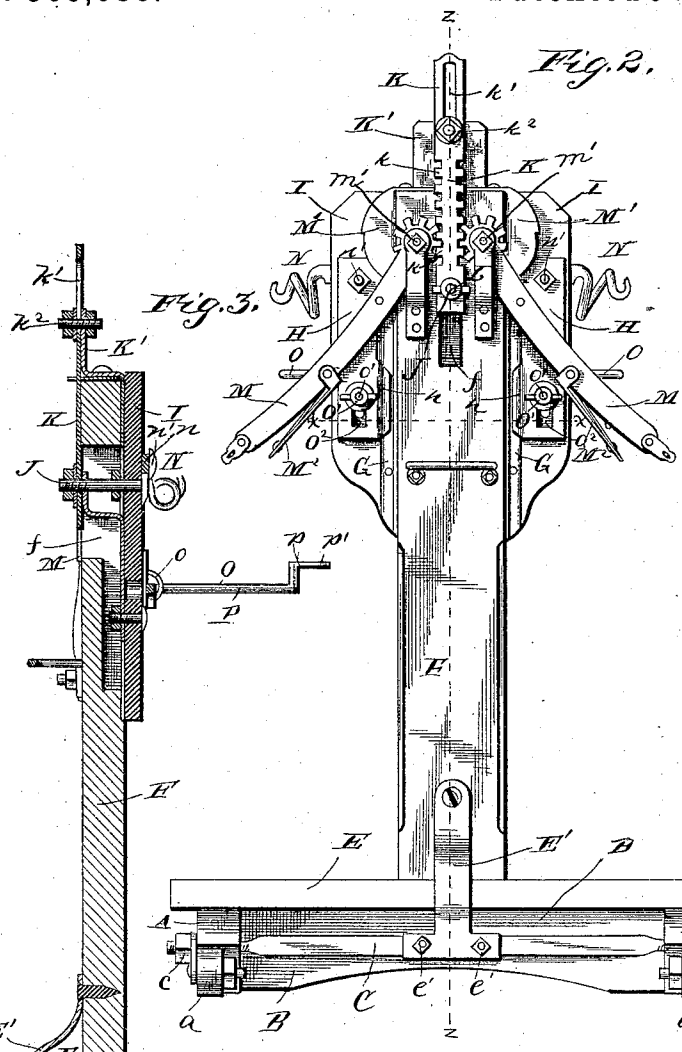
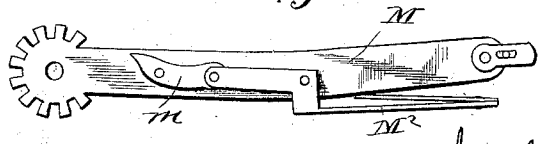


Fig. 3.

Fig. 5.



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UNITED STATES PATENT OFFICE.

JOSEPH HUBER, OF ALTA VISTA, IOWA.

BAG-HOLDER.

SPECIFICATION forming part of Letters Patent No. 365,686, dated June 28, 1887.

Application filed October 20, 1886. Serial No. 216,739. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH HUBER, a citizen of the United States, residing at Alta Vista, in the county of Chickasaw and State of Iowa, have invented a new and useful Improvement in Bag-Holders, of which the following is a specification.

My invention relates to improvements in bag-holders; and it consists of the peculiar combination and novel construction and arrangement of the various parts, substantially as hereinafter fully described, and particularly pointed out in the claims.

The object of my invention is to provide an improved device for holding or suspending a bag with its mouth open, so that the bag can be rapidly and easily filled by a single person.

A further object of my invention is to provide an improved bag-holder with means for raising the bag vertically for a short distance to elevate it out of contact with the floor while filling, to provide means for holding the carrier and its load at any desired elevation, and which can be operated from either side of the machine, and, finally, to provide improved means for moving the device from one place to another, and which shall be very simple and strong.

In the accompanying drawings, which illustrate a bag-holder embodying my invention, Figure 1 is a perspective view. Fig. 2 is an elevation of the rear side of the machine. Fig. 3 is a vertical longitudinal sectional view on the line *z z* of Fig. 2. Fig. 4 is a horizontal sectional view on the line *x x* of Fig. 2. Fig. 5 is a detached detail view of one of the levers.

Referring to the drawings, in which like letters of reference denote corresponding parts in all the figures, A designates the side pieces of the frame which carries the various parts of my improved bag-holder. These sides pieces are arranged parallel with each other and at a suitable distance apart, and in their rear ends are provided with casters or rollers *a*, which are journaled or supported on suitable shafts, as will be readily understood. The side pieces are connected at a point in front of the casters or rollers by a transverse connecting-piece, B, which is also arranged in a vertical position, and the said side and transverse pieces of the frame are braced by means of metallic brace straps C, which are arranged on opposite sides of the transverse piece and pass through suitable openings in said side pieces, the ends of the straps being screw-threaded and having nuts *c* thereon, which bear against the side pieces and securely and rigidly connect the parts together.

E designates a horizontal piece, which is arranged above the transverse piece and secured to the latter, and this horizontal piece has a notch in its front edge, through which passes the lower end of the vertical standard F, which bears against the vertical transverse piece. One of the brace-straps bears against the lower end of the standard, and through the strap, the standard, the vertical connecting-piece, and the other strap are passed horizontal bolts *e'*, which securely connect and brace the several parts together. The standard is further braced and strengthened by means of a curved strap, E', which is secured at its lower end to one of the transverse straps C by the same bolts, *e'*, which secure the standard to the frame, and the upper end of the said strap E' is bolted to the standard, near its lower end, or otherwise suitably secured thereto. The upper end of the vertical standard is provided with a central longitudinal slot, *f*, for a purpose presently to be described, and to opposite side edges of the said vertical standard are secured ways or cleats G, which project outwardly therefrom, and are engaged by inclined lips *h* on bracket-plates H, that are rigidly affixed to and move with a vertically-movable carrier, I, which bears against the front side of the standard. This carrier preferably comprises a flat plate or other suitable device, and the bracket-plates H are secured to the carrier, near the outer vertical sides thereof, the carrier being guided in its vertical movements by the lips of the bracket-plates fitting over and engaging with the projecting cleats or ways of the standard.

J designates a horizontal shaft or bolt, which is arranged in the vertical slot *f* of the standard, and the front end of this shaft or bolt is rigidly secured to the carrier, so that when the latter is moved the bolt or shaft is carried therewith. The opposite end of this bolt or shaft is secured to a vertical bar or rod, K, which is arranged on the opposite side of the

standard from the carrier, and the sides of this bar are provided with gear or rack teeth *k*, as shown. The upper end of this vertically-movable rack-bar is provided with a longitudinal slot, *k'*, through which passes a guide pin or bolt, k^2, which is rigidly secured or affixed in a vertical support, K', that is secured to the upper end of the standard F, as shown.

M M designate operating-levers for moving the rack-bar and carrier vertically. These levers are arranged on the rear and at the sides of the standard, so that the operator, standing on either side, can conveniently and easily grasp either or both of the levers to reciprocate the carrier and rack-bars, and the inner ends of the levers are pivoted to the standard, as shown at *m'*. The said inner ends of the levers are rounded and provided with gear-teeth, which mesh with the teeth on the opposite sides of the vertical rack-bar, and the inner ends of these operating-levers have pawls *m* pivoted thereto. The free end of each pawl is adapted to engage with the teeth on the periphery of a segment, M', one of which is provided for each of the pawls and the operating-lever therefor. These segments are arranged at the sides of the vertical standard, and they are rigidly affixed thereto in any suitable or preferable manner, and the pawls with which these segments are engaged are controlled by spring-pressed levers or hand-pieces M^2, which are pivoted at an intermediate point of their length on the levers M, and are pivoted at their inner ends to the pawls, as shown in Fig. 5.

N designates the upper supporting-arms for the bag or sack, which are formed integral with a transverse bar, *n*, which connects these arms together, and this bar bears against the upper front side of the carrier, to which it is rigidly secured by suitable transverse bolts, *n'*, as shown. The outer ends of the arms are projected forwardly beyond the connecting-bar and out of line with the same, and the said arms are coiled upon themselves, as shown, the edges of the bag being fitted between these coils and securely held in place thereby, as is obvious.

O designates a rock-bar, which is journaled or supported in suitable eyes, *o*, formed in the outer ends of horizontal bolts *o'*, which are passed through vertical slots o^2, formed in the carrier, and also in the lower portions of the bracket plates H, the slots of the carrier and bracket-plates being arranged in line with each other. It will be seen that the bolts can be elevated or raised independently of the carrier by merely moving the bolts, the nuts O' thereon having first been released, whereby the rock-bar can be caused to occupy different heights on the carrier. The rock-bar is provided with arms P, which have right-angled portions *p* on their outer ends, on which are formed the lateral ears *p'*, and said rock-bar and its arms are formed in a single piece of metal. The rock-bar is arranged beneath the upper arms, and it can be turned in its bearings to cause the outer ends of the arms *p* thereof to extend above the upper holding-arms, so that the said arms *p* can be connected to the edges of the mouth of the bag to open the latter.

This being the construction of my improved bag-holder, the operation thereof is as follows: The carrier and the arms thereon are first lowered by properly operating the pivoted levers, the hand-pieces on the levers being first depressed to retract the pawls from engagement with the segments. One side of the mouth of the bag is fitted on the coiled ends of the upper stationary arms of the device. The rock-bar is then turned to elevate the arms thereof, so that the latter may also be connected with the bag, after which the arms are lowered to open the mouth of the bag and retain the latter in this position. The bag is then filled, which can be conveniently performed by one man, after which the levers are again operated to lower the carrier and its load and gently deposit the latter on the floor of the mill or other place, the upper edges of the bag being finally disconnected from the holding arms of the device. It will thus be seen that I provide an improved bag-holder of simple and durable construction, which can be readily operated by one man to rapidly fill bags with grain, flour, or other substances.

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

1. The combination of the standard, the vertically-movable carrier thereon, the fixed arms on the carrier, and the arms also supported by the carrier and adapted to be elevated to engage the bag or sack, substantially as described.

2. In a bag holder, the combination of a standard, a vertically-movable carrier connected thereto, and having the vertical slots, the nutted eyebolts passing through the slots and adjustable vertically therein, and a rock-bar journaled in the eyebolts and having the angular arms, as and for the purpose described.

3. In a bag-holder, the combination of a standard, a carrier connected thereto, a horizontal bar, *n*, secured to the upper end of the carrier and having the short coiled arms, and a horizontal rock-bar journaled on the carrier beneath the fixed bar and having the angular arms extended outwardly beyond the short arms of the fixed bar, as and for the purpose described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

JOSEPH HUBER.

Witnesses:
G. W. OSTRANDER,
CHARLES DICKINSON.