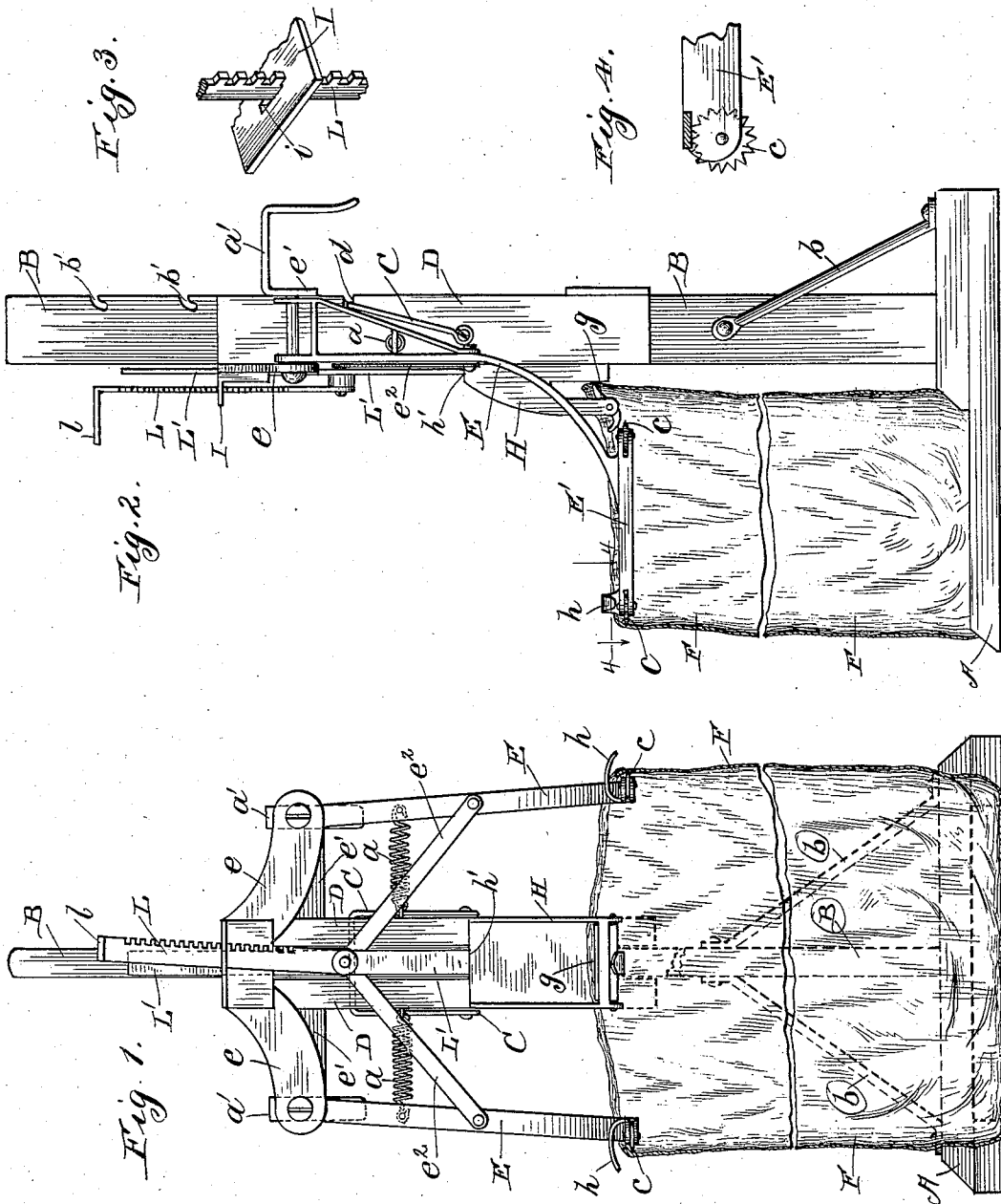


(No Model.)

J. CARLSON.
BAG HOLDER.

No. 576,974.

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Witnesses:
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UNITED STATES PATENT OFFICE.

JOHN CARLSON, OF CHICAGO, ILLINOIS.

BAG-HOLDER.

SPECIFICATION forming part of Letters Patent No. 576,974, dated February 9, 1897.

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To all whom it may concern:

Be it known that I, JOHN CARLSON, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Bag-Holders, of which the following is a specification.

This invention relates to improvements in a device to be used for holding bags when it is desired to fill the same with grain, flour, meal, or other material; and it consists in certain peculiarities of the construction, novel arrangement, and operation of the various parts thereof, as will be hereinafter more fully set forth and specifically claimed.

The objects of my invention are, first, to provide a bag-holder which shall be simple and inexpensive in construction, strong and durable, and effective in operation; second, such a bag-holder which may be so vertically adjusted as to adapt it to bags of different lengths, and, third, to furnish a bag-holder which shall be so constructed that the mouth or open end of the bag may be readily attached or held by the holder and quickly distended or opened to its full extent to admit of the filling of the bag with grain or other material.

Another object of my invention is to provide the supporting-arms with toothed wheels and guides to engage and hold the upper part of the bag when it is being opened or distended.

In order to enable others skilled in the art to which my invention pertains to make and use the same, I will now proceed to describe it, referring to the accompanying drawings, in which—

Figure 1 is a view in front elevation of my bag-holder, showing the bag in section and foreshortened for the convenience of illustration. Fig. 2 is a view in side elevation, illustrating the bag in section and secured thereon and foreshortened. Fig. 3 is a fragmental perspective view of a portion of the rack-bar and its guide-piece employed for adjusting the arms of the holder; and Fig. 4 is a plan view, partly in section, taken on line 4-4 of Fig. 2, showing one of the toothed wheels of the supporting-arms.

Similar letters refer to like parts throughout the different views of the drawings.

A represents the base, which may be made of any suitable size, form, and material, on the rear central portion of which is secured an upright or standard B, which is braced by means of suitable rods or bars *b*, secured to the base and said standard. The upper rear surface of the standard B is formed with downwardly-inclined notches *b'* to receive a yoke C, which is pivotally secured at its ends to the hollow piece or body D of the holder, so that it may be secured in a raised or lowered position to suit the length of the bag.

As is shown in Figs. 1 and 2 of the drawings, the yoke or securing-piece C is pivoted at its lower ends on each side of the body D and extends crosswise of said body at its upper portion and fits within the recess *d* thereof when in engagement with one of the inclined notches of the standard, thus securing the holder at the desired height on the standard. The body D is hollow to receive the standard B and is formed or provided at its upper part with laterally-extending arms *e* and *e'*, at the outer ends of which are pivotally secured the supporting-arms E for the bag F, which is supported by the said arms, as will be presently explained.

The arms E are curved forwardly, as shown in Fig. 2 of the drawings, and are generally provided with substantially horizontal parts *E'*, in the rear and front portions of which are journaled toothed wheels *c*, adapted to engage the upper inner portion of the bag. The free ends of the horizontal parts *E'* are provided with guide-pieces *h*, which are bent outwardly, as shown in Fig. 1, so as to extend over the edge of the bag and beyond the front toothed wheels. The lower front part of the body D is provided with a bracket H, in the lower portion of which is pivotally secured a detent or dog *g*, employed for holding the bag against the lower part of the body, as is clearly shown in Figs. 1 and 2 of the drawings. In front of the arms *e* and on the upper part of the body is located a horizontal piece I, which is provided with a slot *i* for the reception and retention of the rack-bar L, which is formed with a forward extension *l* at its top to be

used as a handhold for raising or lowering said bar. Parallel with the bar L is another bar L', which operates in an opening within the holder just back of the guide-piece I and extends downwardly through an opening *h'* in the bracket H and acts as a guide and carrier for the rack-bar L, which is pivotally secured at its lower end to the bar L' at about its middle. The arms E are connected to the bar L' by means of suitable rods or bars *e*², which are pivoted to said arms and said bar. The arms E are also united to the body D by means of springs *a*, which are employed to hold the horizontal parts E' of the supporting-arms normally together, so that the bag may be easily placed in position thereon. On the rear surface of the arms *e'* and near each end thereof is placed a hook *a'* to be used for securing the holder on a bin or other suitable support when the standard is not used.

From the foregoing and by reference to the drawings it will be seen and readily understood that by disengaging the teeth of the rack-bar L from the plate or piece I the springs *a* will draw the arms E toward each other, in which position the upper edge or part of the bag may be placed therearound, when the dog or detent *g* will press the rear upper part of the bag against the body D and there secure said portion firmly by reason of its own weight and the weight of the bag. The toothed wheels *c* will then engage the mouth of the bag, when by forcing the rack-bar L downward the arms E will be separated by reason of the pivoted rods or bars *e*², which operation will cause the mouth of the bag to be distended, the guide-pieces *h* serving to guide the bag on the toothed wheels *c* of the horizontal portion of the supporting-arms.

When it is desired to release or remove the bag, the outer end of the dog or detent *g* may be pressed downward, which operation will release the rear portion of the bag, as is evident. The rack-bar L may then be disengaged from the plate I and raised, which will contract or draw together the lower part of the supporting-arms and allow the bag to be disengaged from the wheels thereon.

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

1. In a bag-holder, the combination of a body, with a support therefor, a supporting-arm pivotally secured on each side of the body, a forwardly-extending portion on the lower part of each arm, a toothed wheel on each end

of said extended part, and means to retract and distend the supporting-arms, substantially as described.

2. In a bag-holder, the combination of a body, with a support therefor, a spring-actuated supporting-arm pivotally secured on each side of the body, a forwardly-extending portion on the lower part of each arm, a toothed wheel on each end of said extended part, and means to retract and distend the supporting-arms, substantially as described.

3. In a bag-holder, the combination of a body, with a support therefor, a supporting-arm pivotally secured on each side of the body, a forwardly-extending portion on the lower part of each arm, a toothed wheel on each end of said extended part, a guide-piece for the bag on the free ends of the said extended portions, and means to retract and extend the supporting-arms, substantially as described.

4. The combination of the supporting-body, having at its lower part a bracket, with a dog or detent pivoted in said bracket, a supporting-arm pivotally secured on each side of the body, a forwardly-extending portion on the lower part of each arm, a toothed wheel on each end of said extended parts, and means to retract and extend the supporting-arms, substantially as described.

5. The combination with the standard B, having the notches *b'*, of the hollow body D, on said standard, the yoke-catch C, pivoted on the body to engage the notches *b'*, of the standard, the supporting-arms E, pivoted on each side of the body and having the extended portions E', the toothed wheels *c*, on said extended portions, and means to retract and extend the supporting-arms, substantially as described.

6. The combination with the standard B, having the notches *b'*, of the hollow body D, on said standard, the yoke-catch C, pivoted on the body to engage the notches *b'*, the supporting-arms E, pivoted on each side of the body, and having the extended portions E', the toothed wheels *c*, and guide-pieces *h*, on said extended portions, the dog or detent *g*, pivoted on the lower part of the body, and means to retract and extend the supporting-arms, substantially as described.

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