

(No Model.)

A. P. O'BRIEN.
BAG HOLDER.

No. 442,537.

Patented Dec. 9, 1890.

Fig. 1.

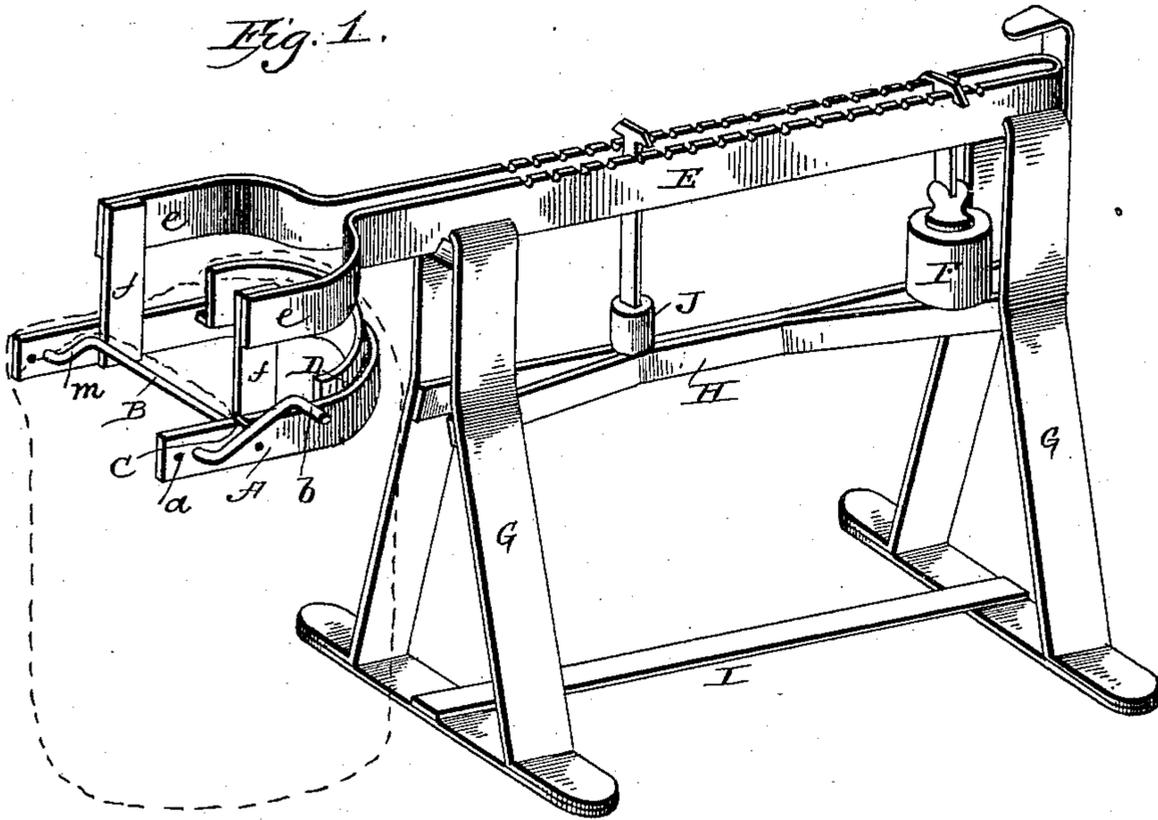


Fig. 2.

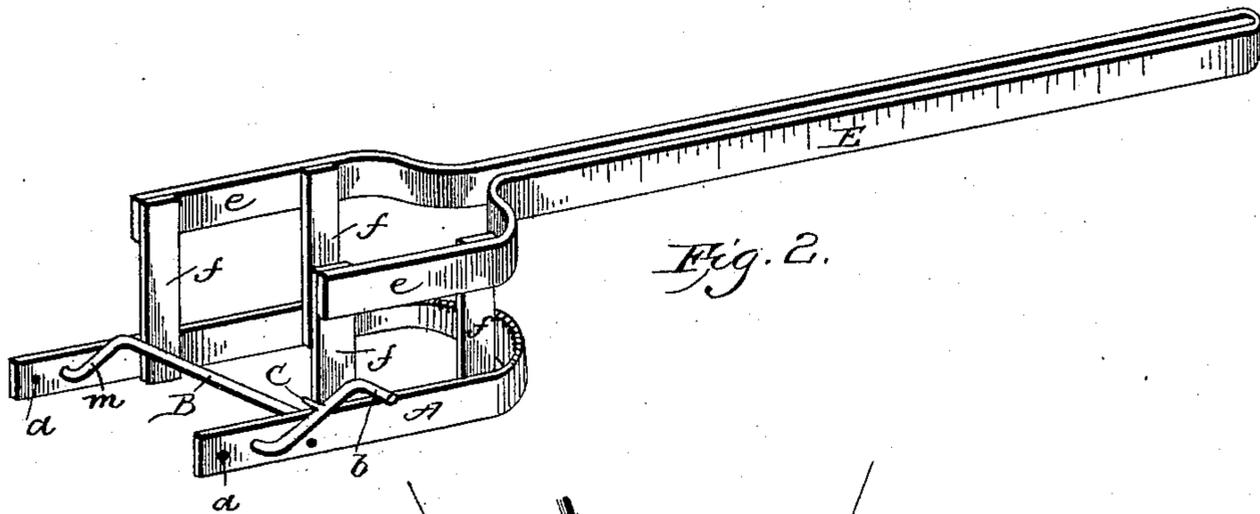
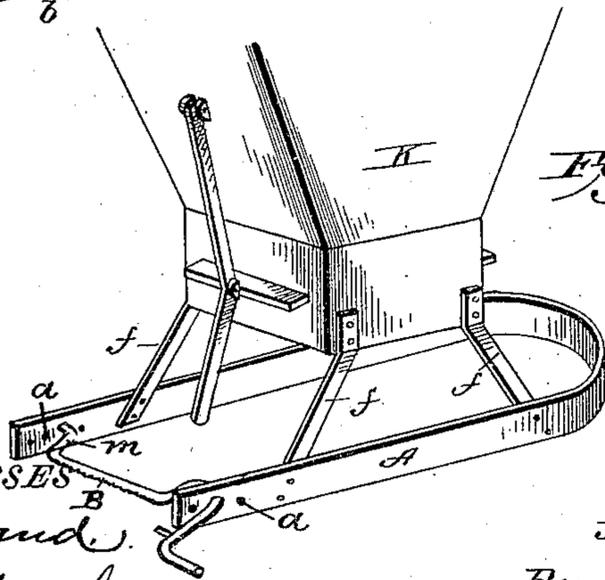


Fig. 3.



WITNESSES
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UNITED STATES PATENT OFFICE.

ANDREW PATRICK O'BRIEN, OF RICHMOND, VIRGINIA, ASSIGNOR OF ONE-HALF TO AUGUSTUS D. LEDOUX, OF SAME PLACE.

BAG-HOLDER.

SPECIFICATION forming part of Letters Patent No. 442,537, dated December 9, 1890.

Application filed August 7, 1890. Serial No. 361,281. (No model.)

To all whom it may concern:

Be it known that I, ANDREW PATRICK O'BRIEN, a citizen of the United States, residing at Richmond, in the county of Henrico and State of Virginia, have invented certain new and useful Improvements in Bag-Holders; and I do hereby 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.

This invention relates to bag-holders, and aims to provide a simple and efficient contrivance for the purpose specified which can be conveniently and quickly operated for attaching the bag or sack to be filled and releasing the same after being filled.

The invention also aims to dispense with hooks and similar attachments which are generally employed in this class of devices, in that they tear the bag and interfere with the instantaneous release of the bag after it has been filled.

The invention further aims to properly sack the bag, doing away with further manipulation after detachment.

The improvement consists of the novel features and the peculiar construction and combination of the parts, which will be hereinafter more fully described and claimed, and which are shown in the annexed drawings, in which—

Figure 1 is a perspective view of a bag-holder embodying my invention. Fig. 2 is a perspective view of a modification. Fig. 3 is a perspective view showing the holder detached from the scale-beam and attached to the lower end of a bin or spout.

The bag-holder proper is composed of the U-shaped support A and the bar B, which is journaled by the crank portions *m* at its ends in the free ends of the support A. One of the journals of the crank portions *m* is extended and provided with the crank *b*, by means of which the bar B is turned on its axis or journals. The stop C, a pin projected laterally from the crank *b*, engages with the support and limits the movement of the bar B when it is turned in to stretch the mouth of the bag and support the bag. The bar B may be formed in any desired manner; but

it is preferred to form it from a rod or stout wire, which is bent at its ends to form the crank portions *m*, by which it is journaled in the ends of the support A and the crank *b*. The bar B may be smooth or roughened, the latter being preferred, as it obtains a better hold on the bag. The eccentric is adjustably connected with the support to adapt the holder for different sizes of bags, a series of holes *a* being provided in the free ends of the support, either one of which is adapted to receive the journals of the crank portions *m*.

The guard D, as shown in Fig. 1, is secured to the support A on the inner side thereof and at its rear end, and projects above the top thereof a sufficient distance to prevent the sack projecting too far across the space between the support and the eccentric. The guard extends parallel with the upper edge of the support A, and is located a sufficient distance therefrom to permit the sack to obtain a firm hold on the support.

In some cases, as shown in Figs. 2 and 3, the standards *f*, which connect the holder with the scale-beam, bin, or other support, also serve in the capacity of a guard and prevent the open end or upper edge of the sack from extending over the support A too far.

The holder is specially adapted for use in connection with a scale-beam E of peculiar construction, the front end of the beam E being divided and having the separated portions *e e* curved in opposite directions and conforming to the outline of the support A, which latter is suspended from the said separate portions *e e* by the standards *f f*. The scale-beam E is of ordinary construction and graduation, and is adapted to receive the weight F. The frame or stand for supporting the scale-beam is composed of the end standards G and the upper and the lower bars H and I, respectively. The bar H is parallel with the beam when the latter is in a normal position and forms a rest for the supplemental weight J when the beam is at rest or in a normal position.

In Fig. 2 the holder is shown connected with the arms *e e* of the scale-beam by four standards *f*, and the scale-beam is detached from the frame, being adapted to be mounted on any support.

In Fig. 3 is shown a bag-holder constructed in every essential particular like that shown in Figs. 1 and 2, except that it is detached from the scale-beam and attached to a bin or spout K. Obviously it is adapted to be secured to a post, wall, or other means of support.

The operation of the invention is as follows: The rear end of the bag to be filled is slipped over the rear end of the support A and its front end is passed over the bar B, which is turned on its axis, thereby stretching the open end of the bag and securing it firmly to the support. The weight F is adjusted to the proper point on the beam. The bag is filled until the scale-beam tilts, when the supply of fertilizers, grain, or other commodity is cut off. The bag is released and set squarely and fully sacked on the floor or truck by reversing the bar B. When the bag is filled from a bin, considerable grain or other substance passes into the bag after the supply is cut off. Hence it has been found necessary to adjust the weight F so that it will not weigh the full amount, the supplemental weight J being gaged to weigh the amount necessary to make the full amount. For example, say the bag is to be filled with sixty pounds of any commodity. The weight F is set on the scale-beam to weigh fifty pounds and the supplemental weight J is arranged to weigh ten pounds, so that the combined action of the two weights F and J will weigh the sixty pounds. It must be remembered that the weight J is normally held free of the scale-beam. The bag is filled, and when the scale-beam tilts, which will be at fifty pounds, the supply is cut off. However, the grain or other commodity in the chute below the cut-off will pass into the bag sufficient to make up the deficiency of ten pounds, which will be indicated by the weight J, the beam being in equilibrium.

It will be seen that the U-shaped support A is in one piece, being composed of a flat bar of metal, which is bent in the form substantially as shown.

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

1. A bag-holder comprising a support A, which is formed of a bar of metal bent in the form of a U and having a bar provided with crank portions, which are journaled in the free ends of the said support and having an operating-crank at the outer end of the journal of one of the crank portions, and a stop to limit the inward movement of the said bar, substantially as and for the purpose described.

2. A bag-holder comprising a support which is formed of a bar of metal bent in the form of a U and having a bar provided with crank portions, which are journaled in the free ends of the said support, a stop to limit the inward movement of the bar, and a guard projected vertically from the inner closed end of the support, substantially as described, for the purpose specified.

3. A bag-holder approximately U-shaped in form and having a crank-shaft at its front end and a support having its end separated and the separated portions bent to conform to the shape of the said bag-holder, and standards connecting the bag-holder with the said support, substantially as described.

4. The combination, with the bag-holder comprising an approximately U-shaped frame, of the scale-beam having its end separated and having the separated portions bent to conform to the shape of the bag-holder, and the connections or supports *f*, substantially as set forth.

5. The hereinbefore-specified bag supporting and weighing device, composed of a frame, a scale-beam mounted on the frame and having its front end separated, the separated portions curving in opposite directions, a main and supplemental weight being normally supported on the frame, the bag-holder suspended from the separated portions of the scale-beam and comprising an approximately U-shaped frame, and a crank-shaft journaled in the free ends of the said bag-holder frame, substantially as described.

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

ANDREW PATRICK O'BRIEN.

Witnesses:

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