(No Model.)

V. H. YOUNG.

BAG HOLDER.

No. 306,310. Patented Oct. 7, 1884.

FIG. 1.

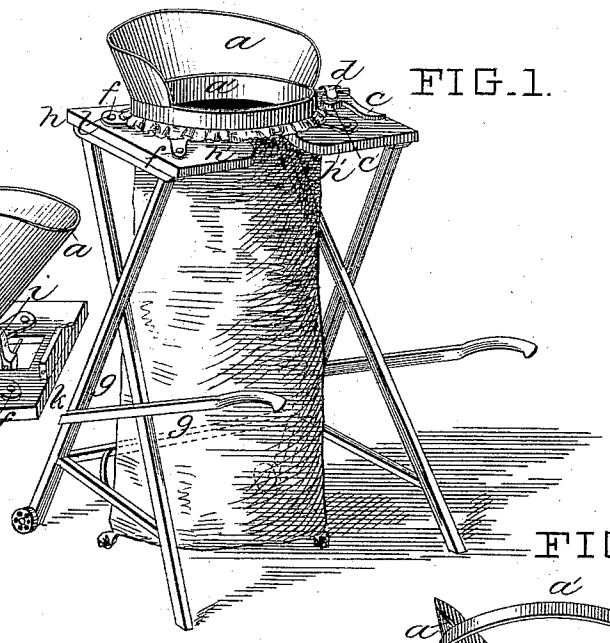


FIG. 3.

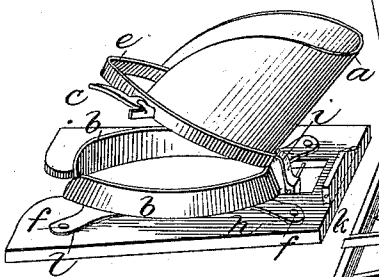


FIG. 2.

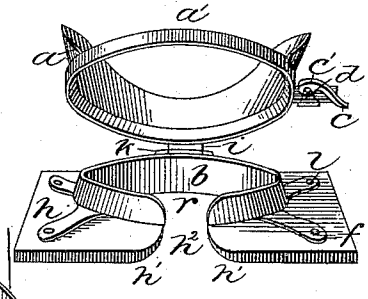


FIG. 5.

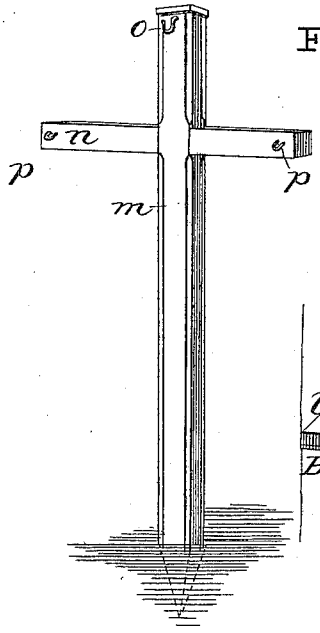
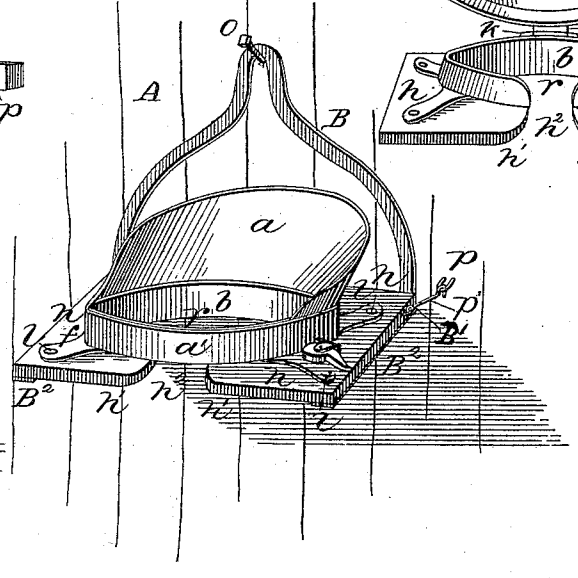


FIG. 4.



WITNESSES.

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UNITED STATES PATENT OFFICE.

VIRGIL H. YOUNG, OF PLATTEVILLE, WISCONSIN, ASSIGNOR OF ONE-HALF TO GEORGE M. GUERNSEY, OF SAME PLACE.

BAG-HOLDER.

SPECIFICATION forming part of Letters Patent No. 306,310, dated October 7, 1884.

Application filed December 18, 1883. (No model.)

To all whom it may concern:

Be it known that I, VIRGIL H. YOUNG, of Platteville, in the county of Grant and State of Wisconsin, have invented a new and useful Improvement in Bag-Holders, of which the following, taken in connection with the drawings, is a specification.

The object of my invention is to provide a simple and economical bag-holder, which can be used in combination with a truck or with a cross-tree, stake, or wall, and which is capable of quick and rapid use, the construction being such that the bag can be very quickly attached and detached, as well as secured; and the invention consists in combinations and details of construction hereinafter described and claimed.

In the drawings, in which the same reference-letters designate the same or similar parts, Figure 1 is a front view of my invention applied to a common truck. Fig. 2 is a front view of the same detached from the support, the bag-securing hoop and attached parts being turned backward. Fig. 3 is a side view of the same. Fig. 4 is a view of my invention applied to the wall of a building. Fig. 5 is a front view of a cross adapted to support my bag-holder, shown in Fig. 4.

In Fig. 1 *g* denotes a truck, such as is shown in the Patent No. 246,667, September 6, 1881, to John F. Draper. This truck is shown as a convenient support for my platform, &c. A *o*, Fig. 4, and *m n o p*, Fig. 5, designate, respectively, a barn or other wall, and a cross or cross-tree, which is of my invention, and serves as a support for my platform, &c., to support my bag-holder when I do not wish to immediately transfer the filled bags from one place to another. The platform *h* is made of a board or any suitable material, and, of the shape plainly shown in Figs. 1 and 2. It is cut away, as seen, in front, for a purpose hereinafter stated, and the central portion is also cut out. To this platform or board the collar *b*, made, preferably, of metal, is securely attached by means of bolts, rivets, or thumb-screws *l*, which pass through perforations or slots in lugs or ears *f*, and through the platform. The collar *b* is preferably made in one piece with these ears, though they may be soldered or otherwise joined to the collar. They therefore serve the double purpose of giving strength to the collar and of furnishing means for securing it to the support. The collar is cut away in front to correspond with the cut-away platform and for the same purpose, and is made slightly tapering or diminishing in size from the bottom toward the top, conical in form, in order to better retain the mouth of the sack, as will hereinafter appear, and it is also made, preferably, oval or oblong, instead of round, to more readily permit a person to empty grain into the bag from a measure or with a scoop-shovel. The platform is secured to the truck (when I use a truck) by means of thumb-screws or screw-bolts. It is readily removable, and may be used with any other support. The bag-securing hoop *a'* is provided with the hopper, mouth, or tunnel *a*, and is also provided with shoulders *d*, between which is pivoted a cam-lever, *c*. This hoop is made of sheet metal or similar elastic, flexible material, so that when the cam-lever is turned forward into position to bring the cam part *c'* to bear on the hoop, the lever will press the hoop tightly upon the collar, and hold it there firmly, securing thus the mouth of a bag that may be between them. The hoop is a complete elliptical band, (or round, if the collar is round,) and hence the trouble of securing the ends is dispensed with, and a more secure holding of the bag is effected—that is, this hoop, as shown in Figs. 1, 2, 3, and 4, is one entire hoop. The cam may be dispensed with by making the hoop *a'* sufficiently elastic. The collar *b* may be vertical on the inside, but it tapers on the outside, and the inside surface of the bag-securing hoop *a'* flares or tapers to correspond with the taper of the outside surface of the collar, though a hoop with a straight or vertical inside surface will bind when pressed down on the cone-shaped collar. The bag in use is passed into the opening *r* within the collar and platform, the shoulders or corners *h'* being rounded off in order to enlarge the opening h^2, through which the bag is passed. The corners are thus out of the way of the person handling the bag. The hoop and hopper *a' a* are hinged by means of lug *i* and ears *k k* to the platform, both for convenience and to prevent the hoop, &c.,

from being misplaced. The hoop is of the same general shape as the collar. B, Fig. 4, is the inflexible, rigid bail with which my bag-holder is provided when I wish to dispense with the use of the truck and support it on a wall or a cross-tree, or a similar support. This bail is made as shown, and preferably of metal, being bent at right angles at B′, the arms B^2 extending beneath the platform, to which they are attached, detachably or removably, by means of thumb screws or screw-bolts, or any other suitable means. Preferably the same means *l* secure the bail, platform, and lugs *f* together. The bail more securely supports the platform by reason of the arms B^2 passing beneath it. They are detachably secured to the platform in order that the same platform, when required, may be applied to the truck.

In Figs. 4 and 5, *o* denotes a hook, spike, or any suitable pin driven into the wall or inserted into the cross-tree, as shown, upon which to support my bag-holder. *p p* denote staples in the cross-tree and wall, into which the hooks *p′ p′* take, in order to keep the bag-holder steady, to prevent it from swinging from side to side or tipping. Of course these staples might be on the holder, and the hooks on the cross or wall, or any equivalent means for steadying the holder might be used.

The operation is as follows: The bag-holder being properly supported by means of the truck or otherwise, as described, the bag-securing hoop and hopper are first turned backward, as seen in Figs. 2 and 3. The bag is then passed between the corners *h′ h′*, through the opening b^2 into the central opening *r*, and then its mouth turned down over the collar *b*, when the hoop and hopper *a′ a* are brought forward, the hoop securely catching the mouth of the bag between it and the collar, and holding it more securely the farther the hoop is pressed down. A turn of the cam-lever locks the hoop in place, the cam binding the bag firmly between it and the collar. When the bag has been filled, the cam-lever is turned back, as seen in Figs. 1 and 2, the spring of the elastic collar being such as immediately to cause it to yield sufficiently to be easily turned back out of the way. With light bags or bags of thin material no cam will be needed, the elasticity and taper or cone shape of the hoop being sufficient to clamp the bag, and to release the bag a mere removal of this hoop is all that is necessary. Owing to the conical or tapering form of the collar and of the hoop, it will be apparent that the farther down the hoop is pressed the tighter it will clamp the bag-mouth between itself and the collar.

Having thus described my invention, what I desire to secure by Letters Patent of the United States is—

1. In a bag-holder, the combination of the platform and the collar, said collar being provided with lugs or ears for the double purpose of giving strength to the collar and furnishing means for attaching it to the platform, as set forth.

2. The conical oval bag-supporting collar cut away in front, in combination with a similarly-shaped and elastic bag-securing hoop made entire, whereby the bag may be more readily adjusted and securely held in place, as specified.

3. The conical oval bag-supporting collar cut away in front, in combination with a similarly-shaped elastic bag-securing hoop, and means for locking or securing the hoop upon the collar, substantially as specified.

4. The hopper and hoop, the platform and bag-supporting collar, said platform and collar being cut away in front, as shown and described, in combination with the hinge which unites the said hoop and hopper with the platform, whereby the putting on and removal of the bag is facilitated, for the purposes specified.

5. In a bag-holder, the cut-away collar, the elastic and entire securing-hoop, and the cam-lever, all combined and arranged as set forth.

6. In a bag-holder, the combination of the platform *h*, the rigid bail B, having arms B^2, extending at right angles, as at B′, to the main part of said bail, whereby said platform is supported and strengthened, as set forth.

7. The supporting means consisting of the cross-tree *m n n*, provided with a supporting-hook, *o*, in combination with the platform, the bag-sustaining collar, the bag-securing hoop, and the bail, substantially as described.

8. The supporting means, consisting of the cross-tree *m n n*, provided with the hook *o*, in combination with the platform, the bag-sustaining collar, bag-supporting hoop, the bail, and the hooks and staple, to prevent the platform tilting or swinging, substantially as described.

In witness that I claim the above as my invention I hereunto set my hand in the presence of two witnesses.

VIRGIL H. YOUNG.

Witnesses:
GEO. M. GUERNSEY,
W. B. SMITH.