

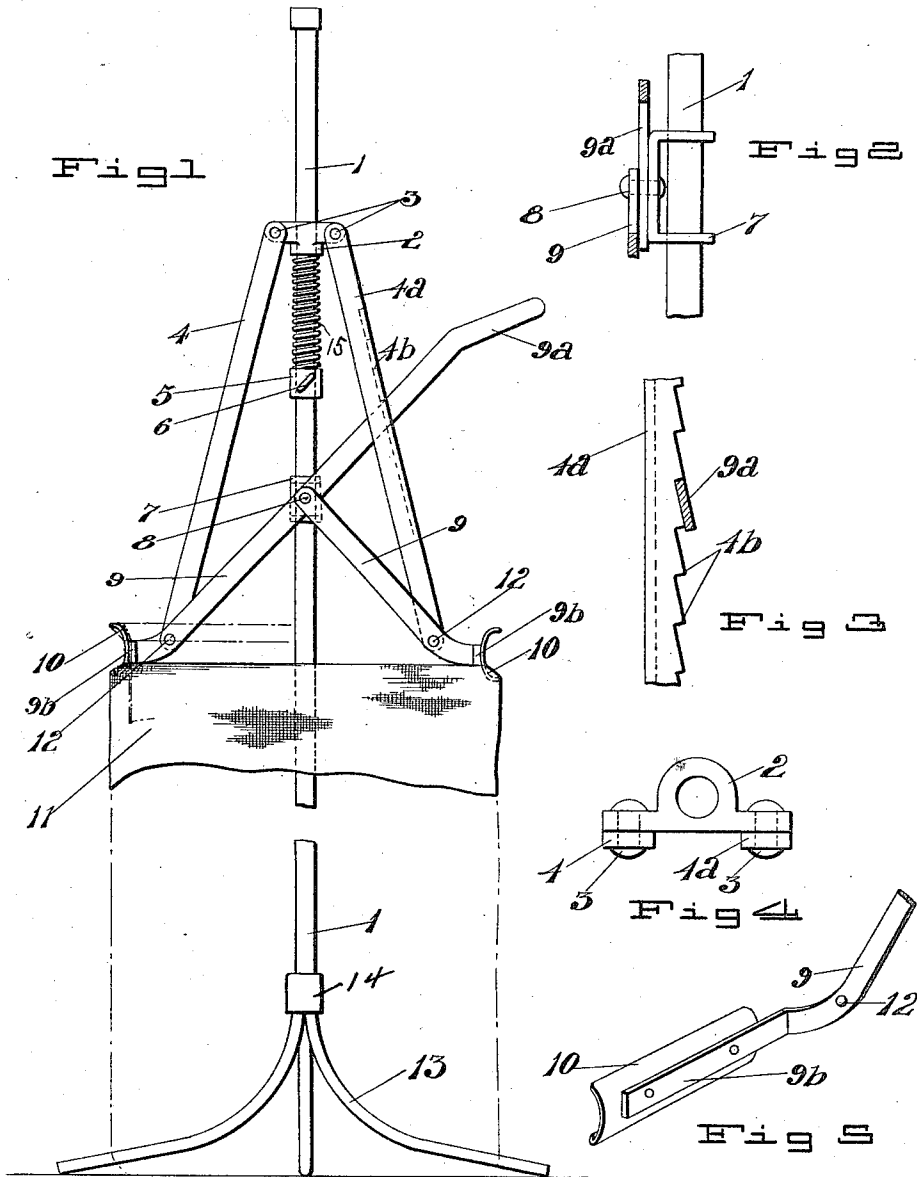
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BAG HOLDER.

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UNITED STATES PATENT OFFICE.

CHARLES H. WOODWARD AND JOSEPH W. DOANE, OF PORTLAND, OREGON.

BAG-HOLDER.

1,106,483.

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To all whom it may concern:

Be it known that we, CHARLES H. WOODWARD and JOSEPH W. DOANE, citizens of the United States, residing at Portland, in the county of Multnomah and State of Oregon, have invented certain new and useful Improvements in Bag-Holders, of which the following is a specification.

Our invention relates to bag holders, and has for its object the production of a simple, economical and widely adjustable device of that class, which may be readily manipulated, and which presents at all times in use a bag of unobstructed throat.

What constitutes our invention will be hereinafter specified in detail and succinctly set forth in the appended claims.

In the accompanying drawings: Figure 1 is a side elevation of our device in preferred form of embodiment, a portion of the standard being broken out to accommodate the scale to the sheet. Fig. 2 is a detail showing in side elevation the sliding collar on the standard taken at right angles to the view thereof shown in Fig. 1, the spreader handle and one spreader arm being in section. Fig. 3 is a detail of the spreader lever handle rack. Fig. 4 is a top plan view of the sliding head and spreader legs detached. Fig. 5 is a perspective view of one bag engaging member and a portion of its spreader arm, in detached detail.

Referring to the numerals on the drawing: 1 indicates a supporting member or standard which in use stands upon a foot piece or tripod 13. Those parts may be conveniently made of pipe sections united by a collar 14.

A sliding head 2, fitting the standard 1, is made adjustable as to height thereon by aid of an adjustably fixed collar 5, a wing bolt 6, and an intermediate spring 15 coiled about the standard. The sliding head 2 carries a spreader whose function is to afford means for holding a bag suspended and open at any point of vertical adjustment of the head 2 upon the standard which the length and width of the bag may demand. To that end, we prefer to construct the spreader of a pair of arms and a pair of legs coöperatively organized with and suspended from the head 2 for the performance of the function required of it. Accordingly, we provide legs 4 and 4^a pivoted at one end respectively, as indicated at 3, and at the other, as indicated at 12 to arms 9 that are united as indicated

at 8 by a common pivot to a sliding collar 7. The spreader as above described constitutes a double toggle lever arrangement which may be conveniently manipulated by aid of a lever handle 9^a to different adjustments, and which, preferably, consists of a prolongation of one of the arms 9. The handle 9^a, being extended transversely of the leg 4^a, is adapted, for the purposes of adjustment of the spreader, to engage the several notches of a rack 4^b which projects operatively in the path of the handle from one side of the leg 4^a. Upon the oppositely projecting ends of the arms 9, outside of their respective pivots 12 we provide angular extensions 9^b, which carry and so make lateral disposition of bag-engaging-members 10. The members 10 are preferably curved as clearly shown in Figs. 1 and 5 so as to adapt them upon being introduced and expanded within the throat of a bag 11, to engage the fabric of the bag and securely hold it without any further provision for the purpose than their shape and means of expansion employed.

In practice, the standard 1 being set upon any horizontal floor, the collar 5 is adjusted and by aid of the bolt 6 fixed to the standard 1 at such height as to accommodate the bag 11. The handle 9^a is then raised until the approach of the members 10 toward each other will admit of their convenient introduction into the throat of the bag. Thereupon, by depression of the handle 9^a, the members are caused to engage and securely hold the bag, the handle being set and secured in position against the rack 4^b as indicated in Figs. 1 and 3. It may be observed that the operation of adjusting the collar 5 is of the simplest nature and that that of attaching and detaching bags is as expeditious and effective as it is simple.

The spring 15 serves to take up any sudden strain imposed upon the fabric of the bag in the filling operation and so as to save it from being torn thereby. By our invention the bag spreader is suspended from one point, of support, on the standard, determined by the head 2, upon opposite sides of which the legs 4 and 4^a are balanced, and in consequence whereof the weight of the pendant bag 11 is equally distributed upon the standard 1, with results that will be manifest to one skilled in the art.

What we claim, is—

1. The combination with a standard, of a sliding head adjustable upon the standard,

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a bag spreader comprising a pair of legs pivoted to said head, a pair of arms pivoted to said legs and to a member sliding on the standard, a bag engaging member operatively disposed upon said arms, means for yieldingly supporting the spreader on the standard, and means for expansibly adjusting it.

2. The combination with a standard, of a sliding head adjustable upon the standard, a bag spreader comprising a pair of legs pivoted to said head, a pair of arms pivoted to said legs and to a member sliding on the standard, a bag engaging member operatively disposed upon said arms, means for yieldingly supporting the spreader on the standard, a collar fixed upon the standard below the sliding head, a coiled spring interposed between them, and a lever extending from one of said arms transversely of one of said legs, for manipulating the arms to adjust the bag spreader.

3. The combination with a standard, of a sliding head adjustable upon the standard, a bag spreader comprising a pair of legs pivoted to said head, a pair of arms pivoted to said legs and to a member sliding on the standard, bag engaging members oppositely disposed upon said arms, means for yield-

ingly supporting the spreader on the standard, a collar fixed upon the standard below the sliding head, a coiled spring interposed between them, a lever extending from one of said arms transversely of one of said legs, for manipulating the arms to adjust the bag spreader, and a series of notches formed upon the said leg within the range of movement of said lever, to engage the lever at the desired point of adjustment.

4. The combination with a standard, of a sliding head adjustable upon the standard, a bag spreader comprising a pair of legs pivoted to said head, a pair of arms pivoted to said legs and to a member sliding on the standard, a bag engaging member operatively disposed upon said arms, and means for expansibly adjusting the bag spreader, said means consisting of a rack on one leg and a cooperative prolongation of the corresponding arm.

In testimony whereof, we affix our signatures in presence of two witnesses.

CHARLES H. WOODWARD.
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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."