No. 836,966. PATENTED NOV. 27, 1906.

C. M. GERSON.

BAG HOLDER.

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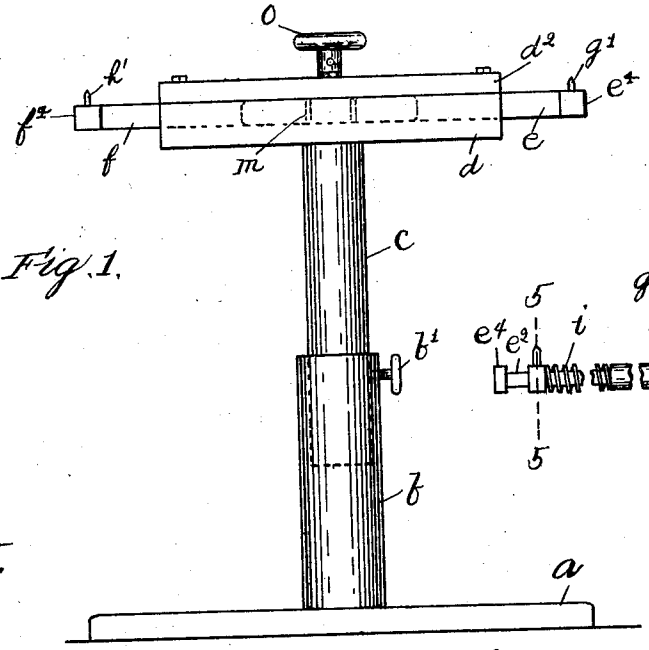


Fig. 1.



Fig. 5.

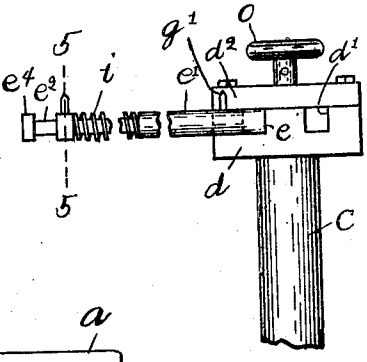


Fig. 4.

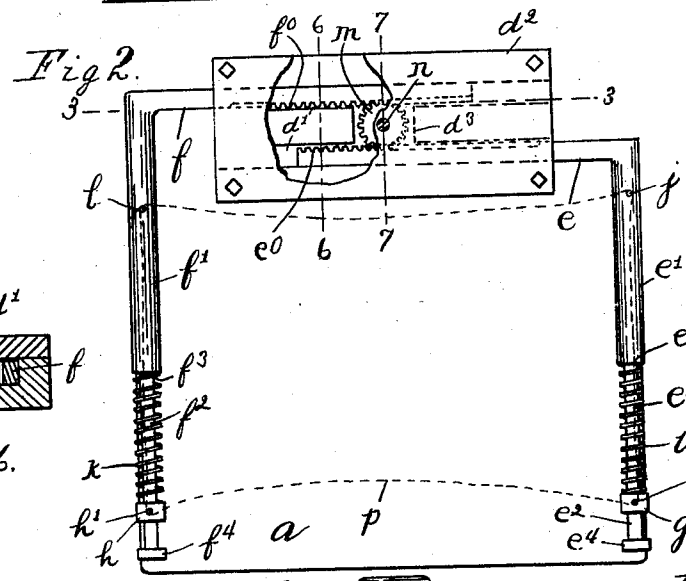


Fig. 2.

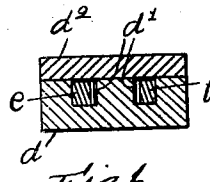


Fig. 6.

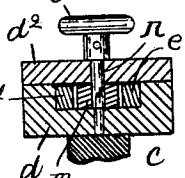


Fig. 7.

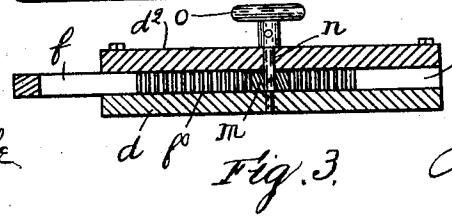


Fig. 3.

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# UNITED STATES PATENT OFFICE.

CHARLES M. GERSON, OF HAVERHILL, MASSACHUSETTS.

## BAG-HOLDER.

No. 836,966. Specification of Letters Patent. Patented Nov. 27, 1906.

Application filed March 17, 1906. Serial No. 306,516.

*To all whom it may concern:*

Be it known that I, CHARLES M. GERSON, of Haverhill, county of Essex, State of Massachusetts, have invented an Improvement in Bag-Holders, of which the following description, in connection with the accompanying drawings, is a specification, like characters on the drawings representing like parts.

My invention has for its object to provide a bag-holder in which the bag-holding arms are adapted to be adjusted readily for different sizes of bags and which will be held in the adjusted position without being locked therein by special locking means.

A further object of my invention is to provide an improved bag engaging and holding means, as will hereinafter appear.

For an understanding of my invention reference is made to the accompanying drawings, in which—

Figure 1 is a front elevation of a bag-holder made according to my invention. Fig. 2 is a plan view thereof. Fig. 3 is a sectional view on the line 3 3 of Fig. 2. Fig. 4 is an end elevation of the upper portion of the holder. Fig. 5 is an enlarged section on the line 5 5, Fig. 4. Fig. 6 is a section on line 6 6 of Fig. 2, and Fig. 7 is a section on line 7 7 of Fig. 2.

The base $a$, which may be of any suitable form, is provided with a standard or upright $b$ near its rear edge, in which an extension-piece $c$ is adjustably mounted. The particular form of means for holding the extension-piece $c$ in the various positions to which it may be adjusted is immaterial an ordinary hand set-screw $b'$ being shown.

A head or arm-holder $d$ is securely mounted on the upper end of the standard extension-piece $c$, said head being provided with a pair of rectangular-shaped longitudinally-extending parallel guideways or grooves of equal depth, said guideways being shown as covered by a plate $d^2$, which is rigidly secured to the head, although the head and plate may be made integral. A pair of rack-bars $e$ and $f$ are respectively fitted to slide in said guideways $d'$ and are respectively provided with oppositely-disposed teeth $e^0$ $f^0$ on their adjacent sides. A recess $d^3$ is formed in the middle of head $d$, which leads from one guideway $d'$ to the other, and a pinion $m$ is located in said recess and mounted on a vertical shaft $n$, journaled in the head. Said pinion is arranged to engage teeth $e^0$ $f^0$ simultaneously, so that when it is rotated in either direction the bars will be moved longitudinally in opposite directions. A hand-wheel $o$ or other suitable means for conveniently rotating the shaft $n$ is provided thereon above the plate $d^2$. The bars $e$ and $f$ are respectively provided with horizontally-extending arms $e'$ and $f'$, said arms extending forwardly at right angles to said bars and terminating at approximately the same distance from head $d$. Shoulders $e^3$ $f^3$ are formed approximately midway of the arms $e'$ $f'$, and the portions $e^2$ $f^2$ between said shoulders and the heads $e^4$ $f^4$ at their ends are made angular in cross-section, as shown in Fig. 5. Sleeves $g$ and $h$ are respectively mounted on said portions $e^2$ $f^2$ of said arms, so that they may slide freely thereon while held from turning, and springs $i$ and $k$ are also respectively mounted thereon and interposed between said sleeves $g$ and $h$ and said shoulders $e^3$ $f^3$. The sleeves $g$ and $h$ are respectively provided with upwardly-extending brads $g'$ and $h'$, and the arms $e'$ $f'$ are also respectively provided with upwardly-extending brads $j$ and $l$ adjacent the head $d$.

The manner in which the bag-holder is used is as follows: The bars $e$ $f$ having been moved inwardly to a suitable extent, the bag $p$ (indicated in dotted outline) is secured to the arms by first forcing it down on the brads $j$ and $l$ at suitable points adjacent its open end and then drawing it forwardly and catching it on brads $g'$ $h'$ at suitable points, the sleeves $g$ and $h$ being moved inwardly, so that the portion of the bag between the brads carried by each arm will be drawn tight by springs $i$ $k$. The pinion $m$ is then turned to move the arms away from each other, drawing the portions of the bag between brads $j$ and $l$ and $g'$ and $h'$, respectively, tightly, so that the mouth thereof will be fully opened and held in rectangular shape, permitting angular-shaped objects, as shoe-soles, to be readily packed in the bag. When the bag is being filled, any tendency which its weight may have to draw the bag-holding arms together is wholly overcome by the arrangement herein shown—that is, it would require considerable force to rotate the pinion by forcing the bars inwardly—and, moreover, the weight on the arms tends to turn the rack-bars in their guide-grooves, causing them to bind against the sides of the groove with sufficient force to prevent all possibility of inward movement.

It will be observed that the bag-engaging arms are always the same distance from the

middle of the standard *b*, so that in case the holder is used on platform-scales the bag will always be held in the middle thereof whatever the position to which the arms may be adjusted. This is important, for the reason that in order that most platform-scales weigh accurately the weight should not be more on one side than the other. If only one arm were made adjustable, bags of different sizes would be differently positioned, while if both arms were independently adjustable each arm would have to be separately adjusted for different sizes of bags in order that the bags might be always held in the middle position.

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

A bag-holder comprising a supporting-standard, a head mounted thereon, a pair of horizontal rack-bars guided to move longitudinally in said head, and having teeth on their adjacent sides, a vertical shaft having a pinion thereon disposed between said bars in position simultaneously to engage said teeth to move said bars in opposite directions, an operating-handle on said shaft extending above said head, and a pair of bag-holding arms connected to opposite ends of said bars and extending transversely thereof forwardly from said head, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

CHARLES M. GERSON.

Witnesses:
L. H. HARRIMAN,
H. B. DAVIS.