Oct. 18, 1932. C. E. CONSTABLE 1,883,585

BAG HOLDER

Filed Aug. 6, 1929

Fig. 1.

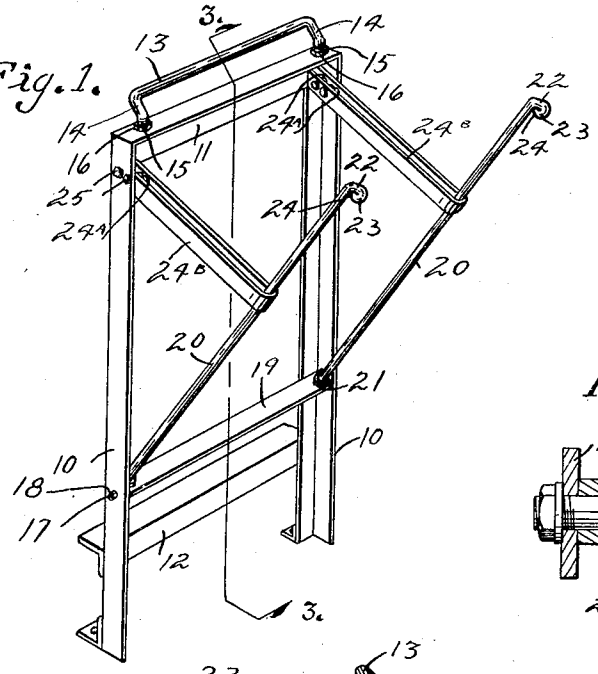


Fig. 4.

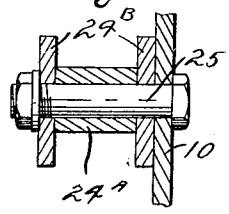


Fig. 2.

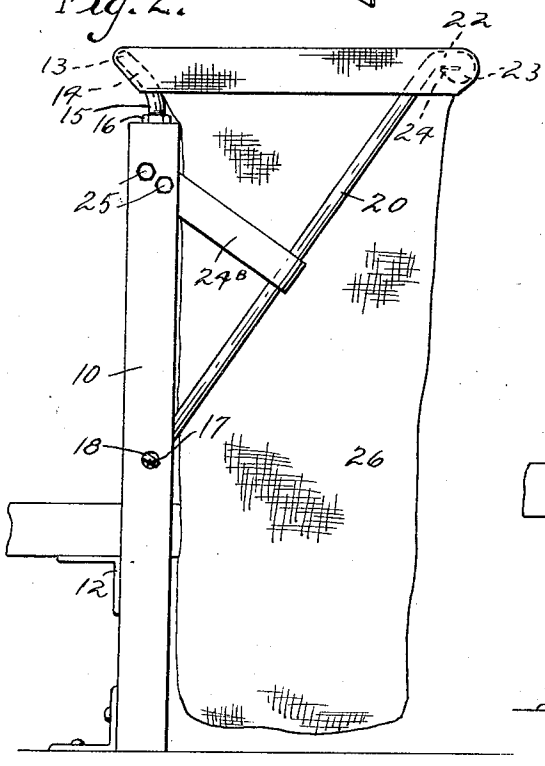
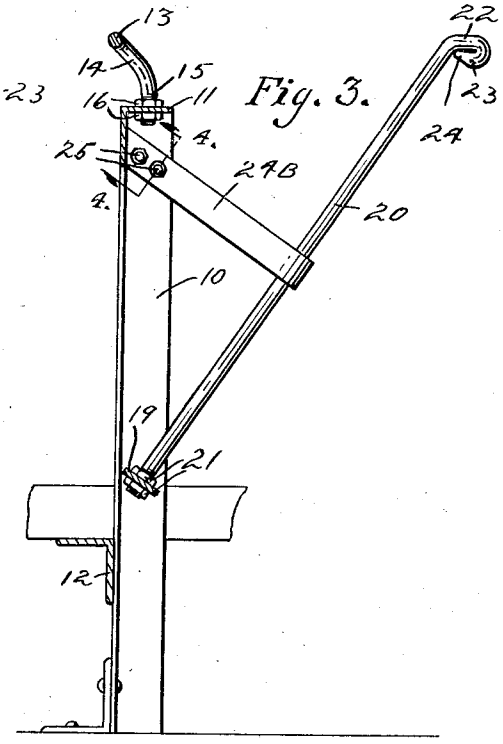


Fig. 3.



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UNITED STATES PATENT OFFICE

CHARLES E. CONSTABLE, OF CINCINNATI, OHIO, ASSIGNOR TO THE NATIONAL MARKING MACHINE COMPANY, OF CINCINNATI, OHIO, A CORPORATION OF OHIO

BAG HOLDER

Application filed August 6, 1929. Serial No. 383,826.

The object of my invention is to provide a bag holder of simple, durable and inexpensive construction, so constructed and arranged that a bag may be easily and quickly placed in position thereon, and when so placed will be securely held in position, and at the same time is so arranged that the bag may be easily and quickly removed.

More specifically it is the object of my invention to provide a bag holder adapted to support the bag in an upright position with the upper end open, so it may be easily filled, and so arranged that the weight of the bag will tend to hold the bag in an open position, and at the same time increase the gripping action between the holder and the bag.

A further object is to provide a bag holder adapted to support the bag in a vertical position with its upper end open in such manner that the bag may be detached by moving the bag laterally or horizontally instead of vertically, as is usually the case.

My invention consists in the construction, arrangement and combination of the various parts of the device, whereby the objects contemplated are attained, as hereinafter more fully set forth, pointed out in my claims, and illustrated in the accompanying drawing, in which:

Figure 1 is a perspective view of my improved bag holder.

Figure 2 is a side elevation of the same showing the manner in which a bag is supported therein.

Figure 3 is a detail sectional view taken on the line 3—3 of Figure 1.

Figure 4 is a detail sectional view taken on the line 4—4 of Figure 3.

My improved bag holder comprises upright frame members 10 connected at their upper ends by means of a frame member 11. The lower portions are connected by a frame member 12 supported adjacent to the back faces of the members 10.

Mounted in the top member 11 is a gripping bar 13 having each of its ends provided with a downwardly and inwardly inclined portion 14, each of which terminates in a downwardly extending screw threaded portion 15. The said portions 15 are mounted in suitable openings in the member 11. Said portions 15 have nuts 16 for anchoring the members 13 and 14 in fixed relation with the member 11. The member 13 is of a length substantially equal to the length of one side of the bag to be supported.

Each of the vertical members 10 is provided with an opening 17, said openings being designed to pivotally receive contracted portions 18 of a bar 19. Each end of the bar 19 is provided with a laterally projecting rod 20 secured in position by means of nuts 21. The free ends of the rods 20 are provided with bent portions 22, which in turn are provided with rebent portions 23. The inner ends of the portions 23 are beveled at 24.

The rods 20 are spaced apart a considerable distance to receive a bag between them, and designed to have their upper ends swung toward and from the gripping bar 13. Said rods are guided by stirrups 24B which limit the outward movement of the rods 20, and also limit the movement of the free ends of the bars toward each other when the weight of the bag is supported thereon.

Each of the stirrups is formed preferably of a flat sheet metal bar having its ends overlapping, the overlapping portions being spaced apart by suitable washers 24*a* mounted on bolts 25. The rods 20 are slidably mounted between the side members of the stirrups. Said stirrups are secured to the upper ends of the members 10 by the bolts 25.

By this arrangement it will be seen that the members 19 and 20 form a yoke pivotally mounted in the members 10.

A bag 26 is placed between the members 20 and adjacent to the front side of the frame members 19 and 11. The upper edge of the open end of the bag is first turned downwardly over the gripping bars 13, after which the opposite side of the overturned edge of the bag is placed over the members 22 and 23 in the manner shown in Figure 2.

By this arrangement it will be seen that the weight of the bag has a tendency to swing the free ends of the rods 20 outwardly, which increases the distance between the members 22 and 13, and causes the over-

turned edges of the bag to be stretched taut, causing the upper open end of the bag to have the form of a rectangle, and to hold the sides of the open end in spaced relation with each other so the bag may be easily filled.

By this arrangement it will be seen that the weight of the bag has a tendency to stretch the open ends and firmly hold the bag in an open position, and at the same time increase the friction between the members 22 and 13. The bag when in position is mounted between the rods 20 and the yoke members 24, so that the bag may be easily and quickly removed if so desired by grasping the lower edge of the overturned portions of the bag, and at the same time swinging the upper ends of the members 20 inwardly, which will release the tension of the bag, permitting the overturned portions of the member 13 to be easily removed. The bag may then be drawn forwardly from between the members 20, thereby making it unnecessary to lift the filled bag vertically as is usually the case in devices of this kind.

Thus it will be seen that I have provided a bag holder of simple, durable and inexpensive construction, having a fixed gripping bar and swinging gripping members, so arranged that a bag may be easily and quickly placed in position, and so arranged and constructed that the device will automatically adjust itself to bags of various diameters and in which the bag will be rigidly and firmly supported in position when attached thereto, and one in which the bag may be easily and quickly removed without having to raise the bag vertically.

I claim as my invention:

1. A bag holder comprising a support having upright members and a horizontal top member, said top member being provided with spaced openings, a gripping bar supported horizontally above said top member, each end of said gripping bar being bent downwardly and inwardly and thence downwardly, screw threaded and extended through said openings, nuts for said screw threaded ends above and below said frame member, said vertical members being provided with openings, a bar pivotally mounted in said openings, each end of said bar having upwardly and outwardly inclined rods, the free ends of said rods being adapted to swing toward and from said gripping bar, and means for guiding the free ends of said rods against inward movement toward each other and for limiting the outward swinging movement of said rods.

2. A bag holder comprising a support having upright members and a horizontal top member, said top member being provided with a gripping bar supported horizontally above said top member, having each of its ends bent downwardly and inwardly and thence downwardly and secured in said top bar, said upright members being provided with openings, a bar pivotally mounted in said openings, each end of said bar having upwardly and outwardly inclined rods rigidly fixed thereto, the free ends of said rods being adapted to swing toward and from said horizontal top member, means for guiding the free ends of said rods against inward movement towards each other and for limiting the outward swinging movement of said rods.

Des Moines, Iowa, June 11, 1929.

CHARLES E. CONSTABLE.