May 23, 1939. E. H. ALLEN 2,158,999

HARVESTER BAG

Filed Feb. 4, 1937

Fig. 1

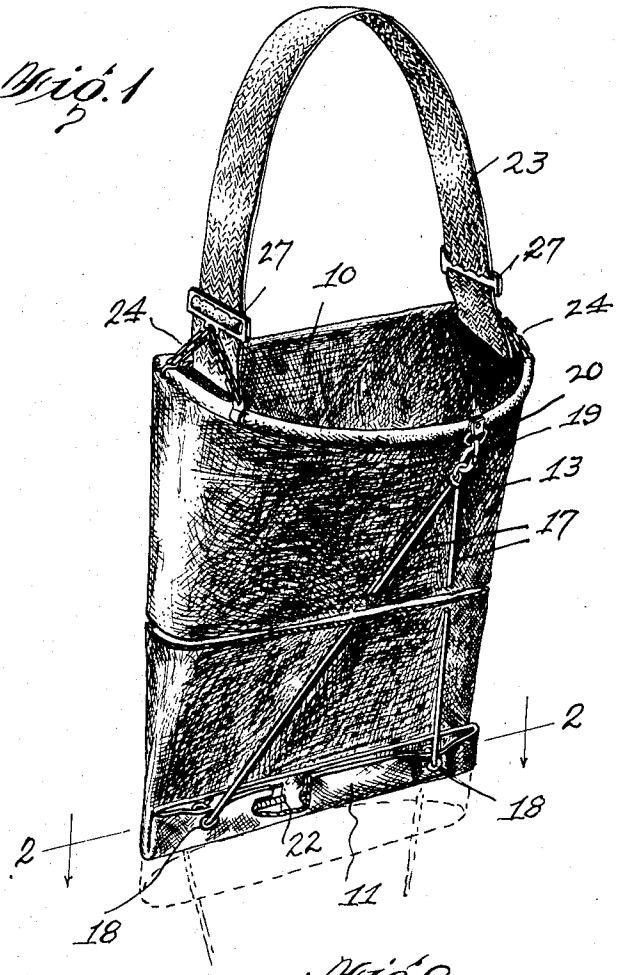


Fig. 2

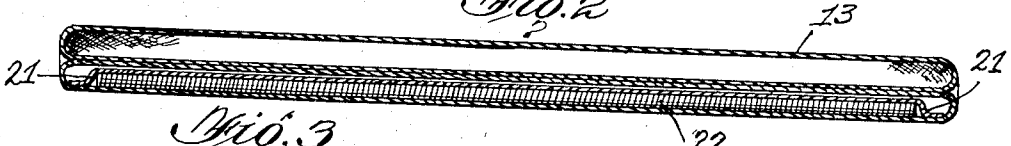


Fig. 3

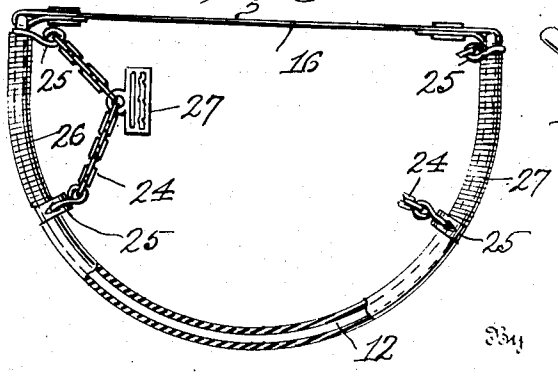
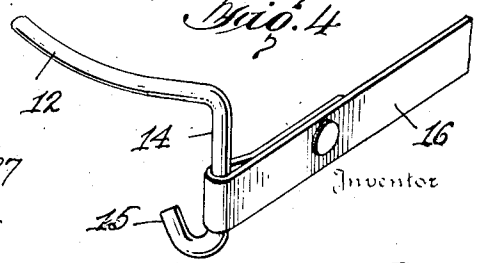


Fig. 4



Inventor

Edmund H. Allen

Edwin L. Yewell Attorney

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2,158,999

HARVESTER BAG

Edmund H. Allen, Orlando, Fla.

Application February 4, 1937, Serial No. 124,097

2 Claims. (Cl. 150—2)

This invention relates to improvements in harvester bags and has for its objects to provide a device of this character which is simple in construction and one that will be comfortable on the wearer and at the same time be readily operable to load and discharge.

These and other objects hereinafter described are attained by the means illustrated in the accompanying drawing, in which:

Fig. 1 is a perspective view of the improved bag;

Fig. 2 is a cross-sectional view taken on the line 2—2 of Fig. 1;

Fig. 3 is a top plan view with the suspender strap removed; and

Fig. 4 is a detail perspective view of one end of the mouth-frame.

Similar reference numerals in all of the figures of the drawing designate like parts.

The bag is provided with a filling-end 10 and a discharge end 11, the filling-end being provided with a metal bowed frame 12 which is preferably inherently resilient and the same is mounted in a hem of the canvas body-portion 13 of the bag. The free ends of the bowed frame are formed with depending extensions 14, (see Fig. 4) and said extensions have formed at their lower ends, inwardly extending hooks 15.

Bowed frame 12 is preferably inserted in bag-hem slightly under tension to effect an expanded mouth to the bag, and to maintain this tension the free ends of frame 12 are connected together by a cross-strap 16 which is preferably constructed of relatively thin metal to permit it to flex laterally and thus form a cushion support to rest against the body of the user when loading the bag. It is understood that the depending portions 14 of the frame 12 and the strap 16 are covered by the bag material, thus forming a broad band across the rear-side of the bag which makes a comfortable wide support against the body of the user.

Discharge end 11 is normally open and is closed by doubling the end of the bag upon itself (as clearly shown in Fig. 1 of the drawing), and is maintained in a closed position by a pair of flexible connections 17 which are attached to the lower end of the bag by suitable metallic eyelets 18, and at the top of the bag by a spring-clasp 19 adapted to engage a suitable ring fastener 20 fixed to a portion of the bowed frame 12, preferably at a point midway of the frame, so that the user can readily release the spring-clasp when it is desired to discharge the contents.

An important feature of this invention which relates to the manner of holding the lower edges of the bag in straight alinement and in close contact with each other and still permit the discharge of the load, consists of a hem or pocket 21 across one of the side-edges, enclosing therein a coiled spring or flexible rod 22 which extends the full length of the pocket and one of the side-edges. This flexible rod will permit the discharge mouth to open and discharge the load, automatically returning to a closed position after discharging. It has been found necessary to provide this semi-rigid reinforcement for the body edges to prevent rumpling and folding of the free edges after long use, whereby the edges become too flexible to maintain the proper discharging condition. In other words, said edges become tangled with each other in a manner to choke the discharge of the load. Furthermore, the use of the flexible rod reinforcement permits the insertion of the discharge end into various shapes and sizes of boxes, baskets and barrels, as said flexible rod will adjust itself to any shape and prevent choking of the load, thus obtaining a free discharge of the contents.

The bag is adapted to be suspended around the neck of the user by means of a wide suspending strap 23, which is preferably attached at its ends to the bowed frame adjacent its free ends. The attachment means comprises a chain-loop 24 at each side of the bag, each end of the chain-loop being provided with a clasp 25 adapted to encircle the rod frame at separated points. Mounted on the rod between the clasps 25 is a coiled spring spacer 26 which permits a slight resilience and prevents undue wear to the connecting parts as heretofore experienced at these points of suspension.

Chain-loops 24 are provided with suitable buckles 27 to which the free ends of the suspending-strap 23 are attached in the usual manner to permit adjustment.

It will thus be seen from the above described bag that a strong, long-wearing and easily manipulated article is provided.

What is claimed is:

1. A harvester bag of the type described embodying a bag of flexible material, an expanded mouth at one end, a foldable lower end to close the same, means for maintaining the end closed to permit loading of the bag, a flexible rod secured across one side of the bag at the discharge end to permit lateral bending of the lower end, thereby to automatically adjust itself to various shapes of receptacles into which said lower end

is inserted to empty the load, and means for suspending the bag on the user's body.

2. A harvester bag of the type described embodying a bag of flexible material, an expanded mouth at one end, a foldable lower end to close the same, means for maintaining the end closed to permit loading of the bag, a coiled spring secured across one side of the bag at the discharge end to permit lateral bending of the lower end, thereby to automatically adjust itself to various shapes of receptacles into which said lower end is inserted to empty the load, and means for suspending the bag on the user's body.

EDMUND H. ALLEN.