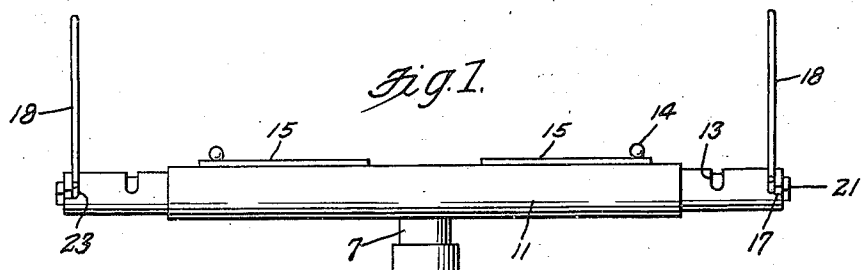
June 7, 1949. M. F. FERRELL ET AL 2,472,410

SACK HOLDER

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Fig. 1.



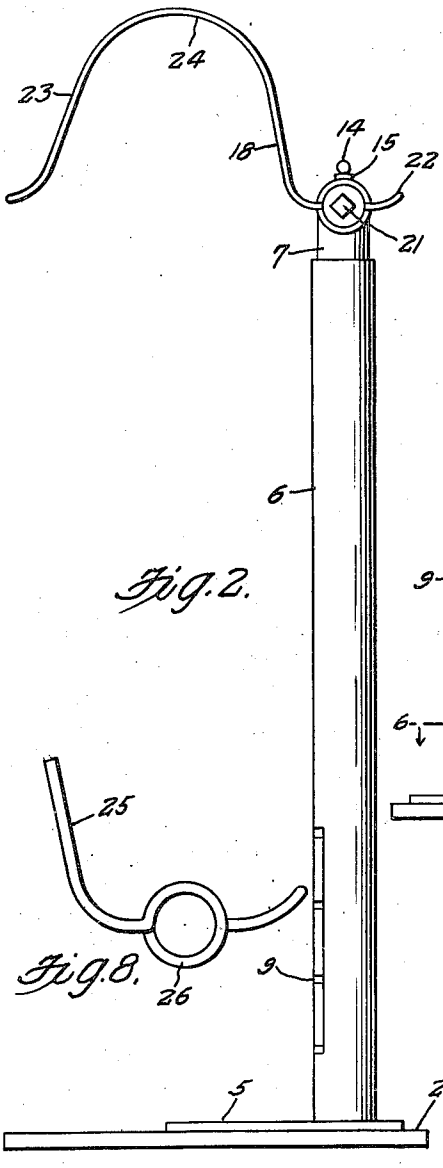
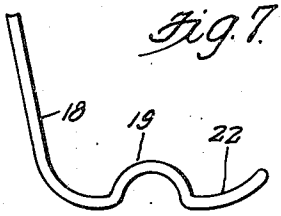


Fig. 2.

Fig. 8.

Fig. 7.



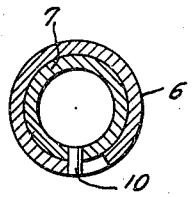


Fig. 6.

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SACK HOLDER

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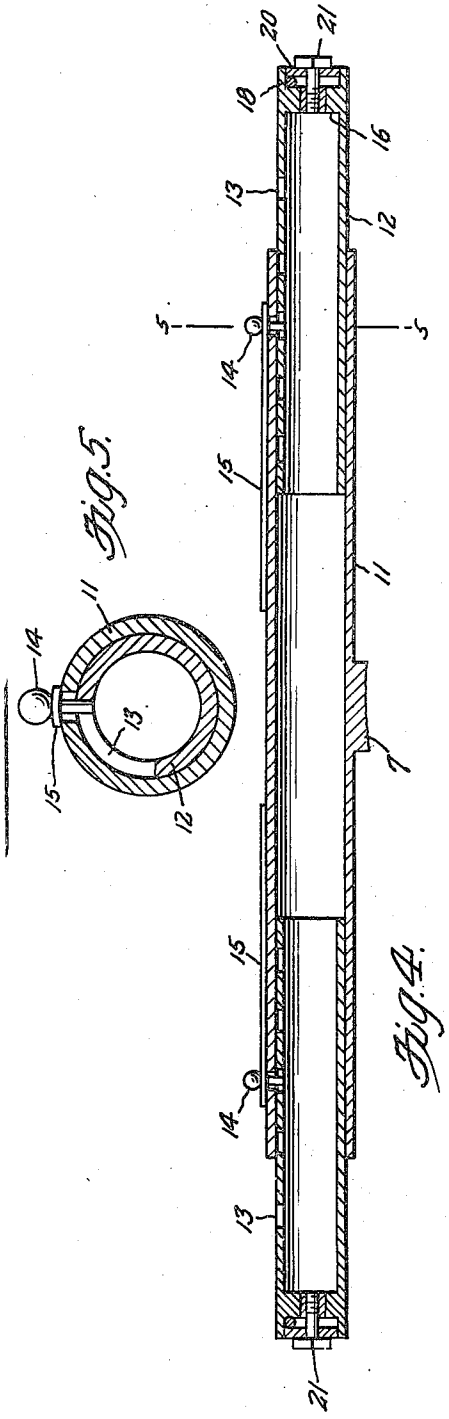


Fig. 5.

Fig. 4.

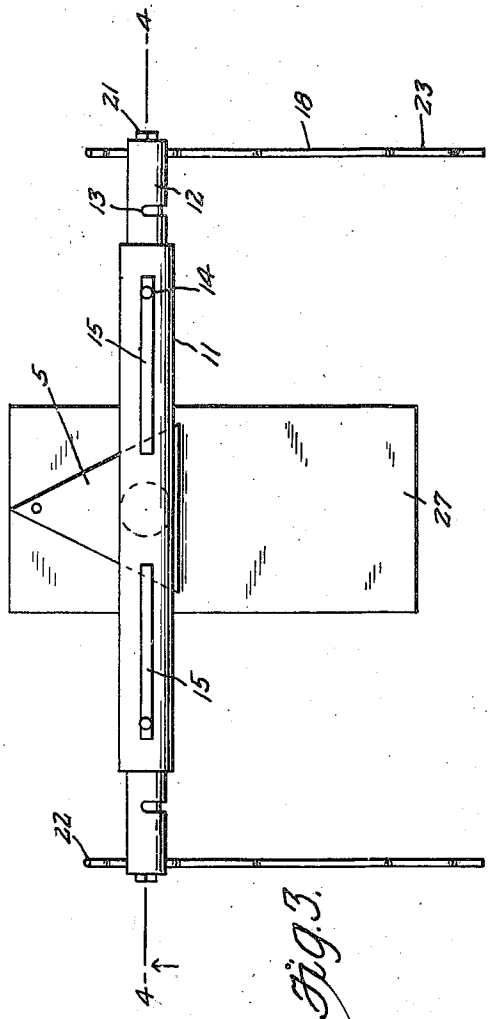


Fig. 3.

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2,472,410

UNITED STATES PATENT OFFICE

2,472,410

SACK HOLDER

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Application May 31, 1945, Serial No. 596,862

2 Claims. (Cl. 248—97)

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The present invention relates to new and useful improvements in sack holders, the primary object of the invention being the provision of a sack holder upon which the sack may be readily mounted when it is to be filled and from which the sack may be removed when filled without any material effort, no lifting of the sack and contents being necessary.

A further object of the invention is to provide a sack holder which may be adjusted for use with various sizes of sacks, including sacks of different lengths, as well as sacks of different widths.

A still further object is to provide a sack holder so arranged that the sack is yieldably held with its mouth open and elevated in such a manner that the sack either rests on its lower end, or is held slightly above the support.

A still further object of the invention is to provide a device of this character of simple and practical construction, which is efficient and reliable in use, relatively inexpensive to manufacture and otherwise well adapted for the purposes for which the same is intended.

Other objects and advantages reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming part hereof, wherein like reference numerals refer to like parts throughout, and in which:

Figure 1 is a front elevational view,

Figure 2 is a side elevational view,

Figure 3 is a top plan view,

Figure 4 is a sectional view taken substantially on a line 4—4 of Figure 3,

Figure 5 is a transverse sectional view of one of the adjustable arms taken substantially on a line 5—5 of Figure 4,

Figure 6 is a transverse sectional view of the vertically adjustable standard taken on a line 6—6 of Figure 1,

Figure 7 is a fragmentary side elevational view of one of the spring arms, and

Figure 8 is a similar view of a modified spring arm construction.

Referring now to the drawings in detail, the invention embodies a base 5 having a post 6, preferably of tubular construction, rising therefrom and having an extension 7 slidably mounted in its upper end for telescoping movement.

The lower portion of the post 6 is formed with a vertical slot 8 having vertically extending, relatively short re-entrance slots 9 communicating therewith at one side of the vertical slot 8, as indicated in Figure 1 of the drawing, and in which is slidably positioned a pin 10 projecting from

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the extension 7, whereby to secure the extension 7 in vertically adjusted position in the post 6 in a manner as will be apparent.

To the upper end of the extension 7 is secured a horizontal tube 11 in any suitable manner, such as by welding or the like, the ends of the tube 11 having a pair of tubular arms 12 slidably mounted therein for telescoping adjustment inwardly and outwardly at the end of the tube.

The arms 12 are provided with longitudinally spaced, circumferentially extending slots 13 adapted for selectively receiving a pin 14 carried at the end of a leaf spring 15 secured on top of the tube 11, whereby to secure the arm 12 in horizontally adjusted position at the ends of the tube 11 and providing for limiting rotary movement of the arms 12 in the tube.

The outer ends of the arms 12 are closed by an end wall, or the like, 16, recessed inwardly of the ends of the arms and the ends of the arms are formed with longitudinally extending slots 17 at diametrically opposite sides thereof adapted to receive a spring arm 18 having a semi-circular portion 19 formed therein positioned in the end of the arms 12 and secured therein by means of a washer 20, the washer being held in clamping engagement with the semi-circular portion 19 of the spring arm by means of a screw 21 threaded in the end wall 16, in a manner as will be apparent from an inspection of Figure 4 of the drawing.

The spring arm 18 includes a relatively short rear end 22 which projects rearwardly from the arm 12 and a relatively long front end 23 which projects forwardly therefrom, the relatively long front end 23 of the spring arm being bowed upwardly, as indicated at 24.

In Figure 8 of the drawing we have illustrated a modified construction of the spring arm designated generally at 25 and which includes a coil 26 from which the short and long ends of the spring arm project, the coil being adapted for positioning in the end of the arms 12 and clamped therein by the washer 20 and screw 21 in the same manner as heretofore explained.

In the operation of the device, the base 5 at the lower end of the post 6 may be attached to a suitable support, such as a board or the like 27, and if desired a series of the sack holders may be secured in side-by-side relation on a board or other supporting structure for holding sacks to be filled by a group of workmen.

The front end of the long arm 23 is engaged in the front of the mouth of the sack, while the short arm 22 is engaged in the rear of the mouth

of the sack for supporting the sack in an open position on the spring arm at the opposite ends of the arms 12.

The post extension 7 is adjusted vertically in accordance with the height of the sack so that the bottom of the sack engages the ground or supporting surface 27.

The weight of the sack will rotate the arms 12 so that the pin 14 will be engaged in the rear end of the slot 13, and when it is desired to remove the sack, the long end 23 of the spring arm is first disengaged from the front of the sack, whereby the weight of the sack will rotate the arms 12 in the tube 11 to cause the short, rear ends 22 of the spring arms to drop downwardly, and automatically free themselves from the rear of the sack.

The arms 12 may be adjusted inwardly or outwardly of the tube 11 in accordance with variations in the width of the sack.

In view of the foregoing description taken in conjunction with the accompanying drawings, it is believed that a clear understanding of the construction, operation and advantages of the device will be quite apparent to those skilled in this art. A more detailed description is accordingly deemed unnecessary.

It is to be understood, however, that even though we have herein shown and described a preferred embodiment of our invention that the same is susceptible to certain changes fully comprehended by the spirit of the invention as herein described and the scope of the appended claims.

Having thus described the invention, what we claim is:

1. A sack holder comprising a standard, a horizontal tube on the upper end of the standard, a pair of arms slidably and rotatably mounted in the ends of the tube, means for securing the arms in slidably adjusted position and also for limiting rotary movement of the arms and including longitudinally spaced, circumferentially extending slots in the arms, and pins carried by the tube and engaged in the slots, a pair of resilient sack-supporting arms, and means for attaching the sack-supporting arms transversely in the outer ends of the first-named arms to project forwardly and rearwardly of the standard and adapted for engaging and supporting the front and rear sides of the mouth of a sack, the rear ends of the sack-supporting arms being adapted to swing downwardly to release the sack upon a removal of the sack from the front ends thereof.

2. A sack holder comprising an upstanding support, horizontal aligned arms extending from opposite sides of said support and mounted thereon for limited rotation in opposite directions about the longitudinal axis of the same, and sack-supporting arms fixed to said horizontal arms to extend crosswise of the same and having front and rear ends for engaging and supporting the front and rear sides of the mouth of a sack, the front ends of said sack-supporting arms being longer than the rear ends whereby the weight of the sack will cause said horizontal arms to be rotated into one limit of rotation thereof, said horizontal arms being rotatable into the opposite limit of rotation thereof to incline the rear ends of said sack-supporting arms downwardly when the rear side of said mouth of the sack is attached thereto solely and whereby said rear ends will release the sack upon removal of said sack from the front ends of said sack-supporting arms.

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REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
729,564	Fjellman	June 2, 1903
942,231	Woodman	Dec. 7, 1909

FOREIGN PATENTS

Number	Country	Date
433,950	Germany	Sept. 11, 1926