May 6, 1947. C. E. HELMS 2,420,243

SACK HOLDER

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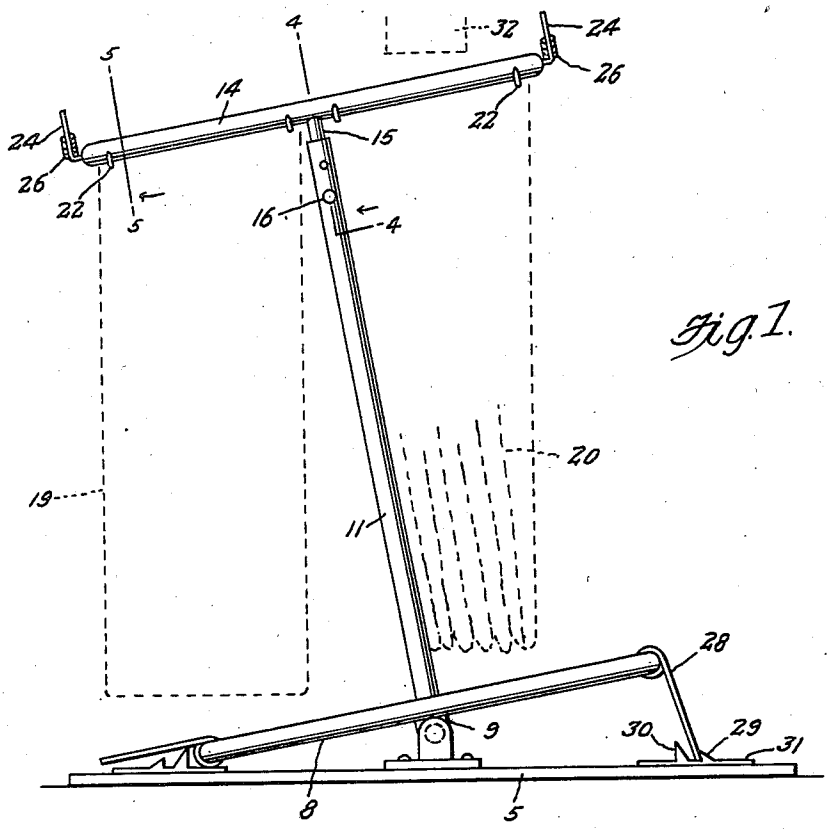


Fig. 1.

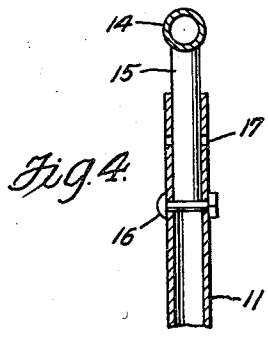


Fig. 4.

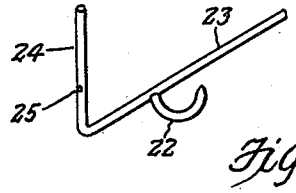


Fig. 6.

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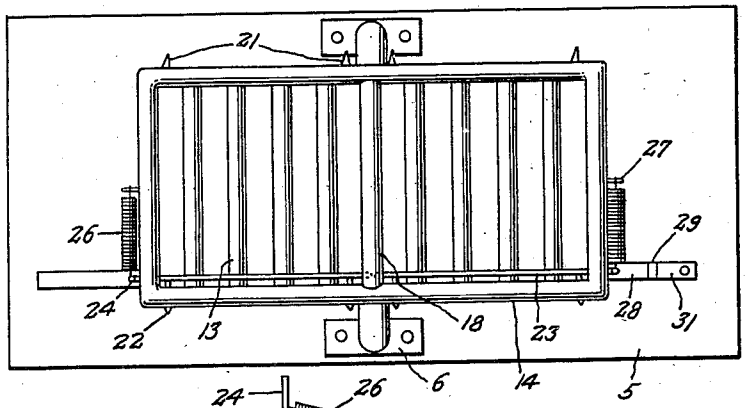
Attorneys

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Fig. 2.



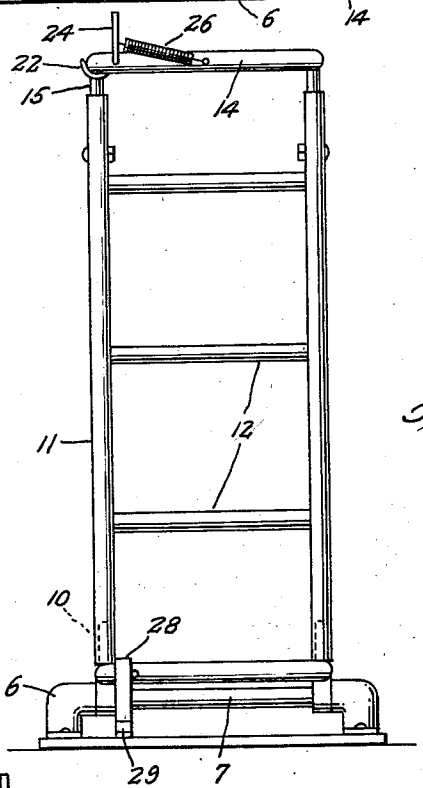
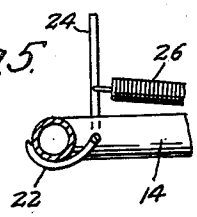


Fig. 3.

Fig. 5.



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SACK HOLDER

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Application November 24, 1945, Serial No. 630,597

4 Claims. (Cl. 248—99)

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The present invention relates to new and useful improvements in sack holders of a type adapted for holding a sack while the same is being filled from a discharge chute.

An important object of the present invention is to provide a sack holder adapted for positioning beneath a discharge chute and embodying means for moving an empty sack into position beneath the chute when another sack has been filled, so that the contents of the chute may be continuously discharged without interruption and the filling of the sacks continued without danger of spilling the material on the ground.

More specifically the invention embodies the provision of a rockably mounted stand on which a pair of sacks are supported so that after one of the sacks has been filled the stand may be rocked into a position for discharging the material into the other of said sacks and while the filled sack is being removed and replaced by an empty sack.

A still further object is to provide a device of this character of simple and practical construction, which is strong and durable, efficient and reliable in operation 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 numerals refer to like parts throughout, and in which:

Figure 1 is a side elevational view.

Figure 2 is a top plan view.

Figure 3 is an end elevational view.

Figure 4 is a fragmentary sectional view taken substantially on a line 4—4 of Figure 1.

Figure 5 is a transverse sectional view of one side of the sack holding frame taken on a line 5—5 of Figure 1, and

Figure 6 is a fragmentary perspective view of one of the sack clamping members.

Referring now to the drawings in detail wherein for the purpose of illustration I have disclosed a preferred embodiment of the invention, the numeral 5 designates a flat base on which a pair of bearing members 6 are secured for supporting a cross rod 7 in spaced relation above the base transversely thereof.

A lower rectangular frame 8, preferably of tubular material, is provided at its opposite side with downwardly extending apertured ears 9 pivotally mounted on the rod 7 for vertical rocking movement of the frame.

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A pair of pins 10 project upwardly from the frame 8 at opposite sides thereof and over which are telescoped the lower ends of a pair of tubular posts 11, the posts being rigidly connected to each other by transverse brace members 12. The frame member 8 is also provided with transversely extending brace members 13.

An upper rectangular frame member 14, likewise preferably constructed of tubular material, is provided at its opposite sides with downwardly extending rods 15 slidably received in the upper ends of the tubular posts 11 and secured in vertically adjusted position therein by resting on transverse bolts 16 selectively positioned in vertically spaced openings 17 formed in the upper ends of the posts 11. The opposite sides of the upper frame 14 are also connected at the center thereof by a transverse brace 18.

Each end of the upper frame 14 is adapted for suspending sacks 19 and 20 therefrom by means of prongs 21 projecting outwardly from one side of the frame 14 and on which one side of the sacks are hooked, the opposite sides of the mouth of the sacks being secured to the upper frame 14 by means of laterally extending hooks 22 projecting outwardly from one side of a longitudinally extending rod 23 having one end pivotally supported in the center transverse brace 18 and pivotally supported adjacent its other end in one end of the upper frame 14 with the hooks 22 engaged under an adjacent side of the upper frame in a manner as will be apparent from an inspection of Figure 5 of the drawings.

The rod 23 projects outwardly at the end of the frame 14 and is formed at its outwardly projecting end with an upwardly projecting lever 24 having an opening 25 formed therein and to which one end of a coil spring 26 is attached, the other end of the spring being connected to a pin 27 projecting from the adjacent end of the frame 14. The spring 26 exerts its influence on the lever 24 whereby to urge the hooks 22 upwardly against the side of the frame 14 for clamping an adjacent edge of the sack against the frame to thus cooperate with the prongs 21 in suspending the sack from the upper frame 14.

Each end of the lower frame 8 is provided with a freely swinging resilient prop 28 having its free end adapted for movement into a position between a pair of spaced apart lugs 29 and 30 rising from a plate 31 secured adjacent each end of the base 5. The outermost lug 29 is relatively short as will be apparent from an inspection of Figure 1 of the drawings and over

which the free end of the prop is adapted to ride during an upward rocking movement of the adjacent end of the frame 8 for engagement of the prop between the lugs 29 and 30 whereby to support the sack holder in its tilted position.

In the operation of the device the sack holder is placed in position with the cross rod 7 directly beneath a discharge chute 32 and the upper frame 14 tilted toward one side and secured in its tilted position by the prop 28 so that one of the sacks will be supported beneath the chute.

After the sack thus held in position beneath the chute has been filled, the prop 28 is released by the toe of a person and weight of the filled sack will swing the frames 8 and 14 to move the filled sack out from under the chute and to move an empty sack, which is suspended from the other end of the frame 14, into position beneath the chute and is held in that position by the prop 28 at the upwardly tilted end of the frame 8. The filled sack is then removed and replaced with an empty sack and the operation thus continues.

The sacks are released from the hooks 22 by manually swinging the levers 24 downwardly.

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 there is herein shown and described a preferred embodiment of the invention 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.

What is claimed is:

1. A sack holder comprising an upstanding rockable support, a horizontal sack holding member at the upper end of the support and adapted for suspending a sack from each end thereof for alternate movement into and out of position under a sack filling device, and locking means securing the support in tilted position.

2. A sack holder comprising an upstanding rockable support, a horizontal sack holding member at the upper end of the support and adapted for suspending a sack from each end thereof for alternate movement into and out of position under a sack filling device, and a locking prop at each side of the support for securing the latter in oppositely tilted positions.

3. A sack holder comprising an upstanding rockable support, upper and lower horizontal members carried by the support, sack holding means carried at each end of the upper member adapted for suspending a sack in open position from each end thereof for alternate movement into and out of position under a sack filling device, and means carried by the lower member for locking the support in a tilted position.

4. A sack holder comprising an upstanding rockable support, upper and lower horizontal members carried by the support, sack holding means carried at each end of the upper member adapted for suspending a sack in open position from each end thereof for alternate movement into and out of position under a sack filling device, and pivoted props carried by the lower member for locking the support in a tilted position.

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