J. W. WHITE.

PORTABLE BAG HOLDER.

APPLICATION FILED OCT. 31, 1917.

1,293,277.

Patented Feb. 4, 1919.

2 SHEETS—SHEET 1.

FIG. 1.

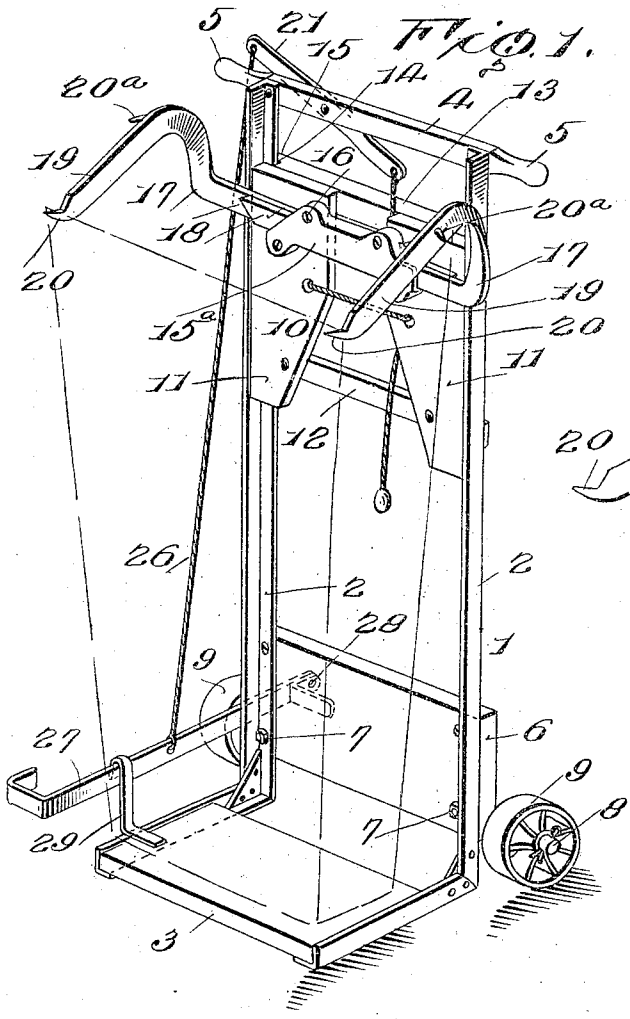
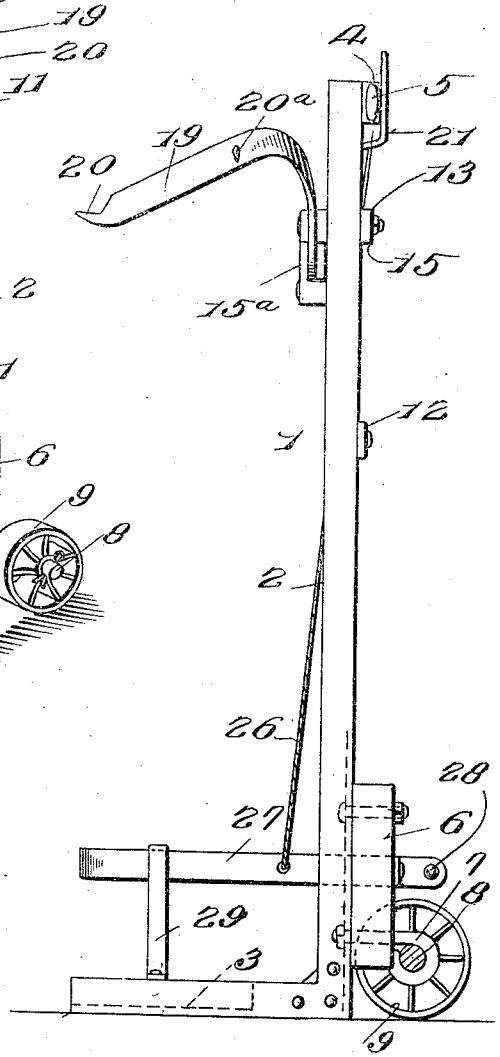


FIG. 2.



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2 SHEETS—SHEET 2.

FIG. 3.

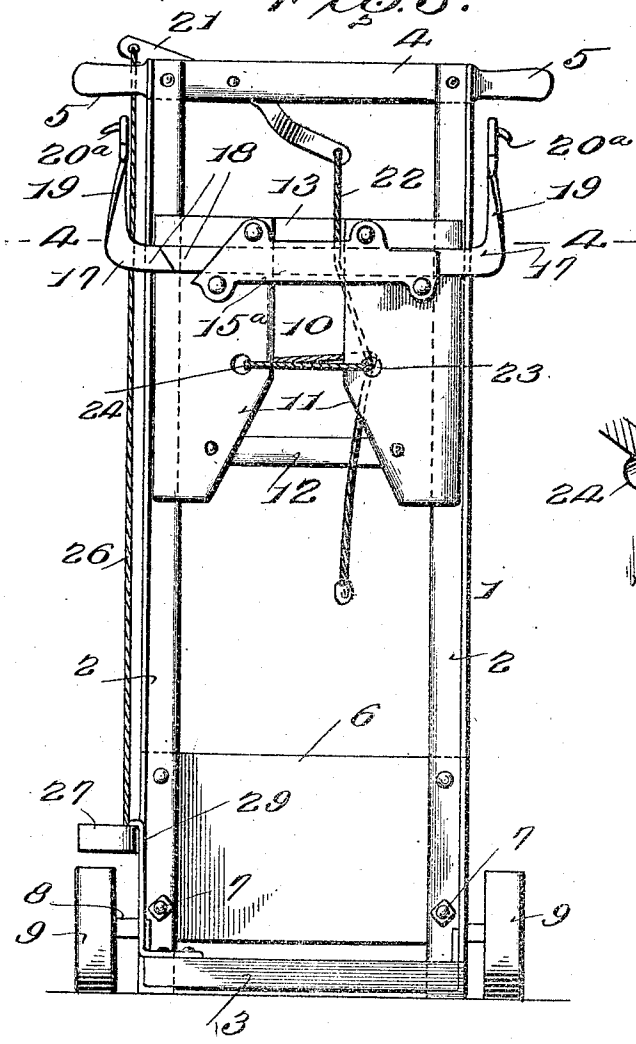


FIG. 5.

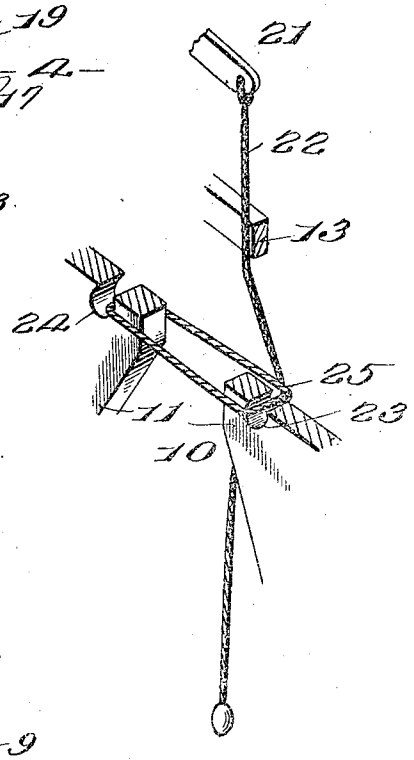
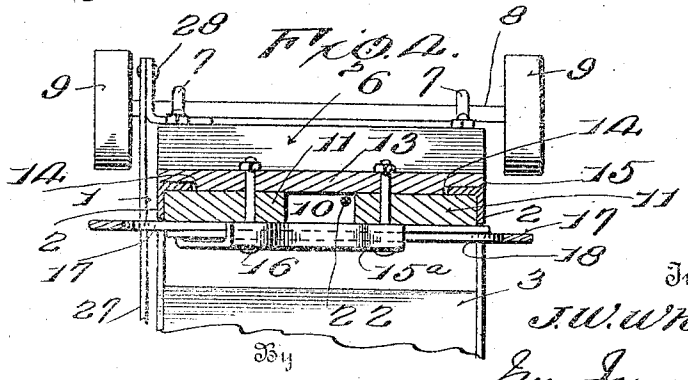


FIG. 4.



Witnesses

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UNITED STATES PATENT OFFICE.

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PORTABLE BAG-HOLDER.

1,293,277. Specification of Letters Patent. Patented Feb. 4, 1919.

Application filed October 31, 1917. Serial No. 199,497.

To all whom it may concern:

Be it known that I, J. WESLEY WHITE, citizen of the United States of America, residing at Lewistown, in the county of Fergus and State of Montana, have invented certain new and useful Improvements in Portable Bag-Holders, of which the following is a specification.

This invention relates to improvements in portable bag holders.

The primary object of the invention is the provision of an improved portable structure which is adapted to be adjusted to fit sacks of various widths and heights.

A further object of the invention is to provide automatic means for supporting the bag holder in adjusted positions.

Another object of the invention is to provide means for vibrating a bag to settle the contents when filling.

The invention also comprehends improvements in the construction and arrangements of parts which will be hereinafter described and particularly pointed out in the claims.

In the drawings:—

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

Fig. 2 is a side elevation of the same.

Fig. 3 is a front view.

Fig. 4 is a section on the line 4—4 of Fig. 3.

Fig. 5 is a detail perspective section of the adjustable frame and the supporting cable.

1 indicates a truck, comprising side bars 2, formed of angle iron, the ends of which are bent at right angles to form a means for attaching a bag support 3. At the opposite ends of the angle irons is a cross bar 4, extended beyond said irons and shaped to form handles 5. Near the support 3, and attached to the side bars, is a cross brace 6, and to same is attached bearings 7, to support a shaft 8, on which wheels 9, are mounted.

Adjustably mounted between the side bars 2, of the truck, is a frame 10. This frame comprises a pair of spaced apart boards 11—11, connected at their lower ends by a brace 12, and at their upper rear ends by a cross bar 13. The boards 11, rest on the normally horizontal portions of the angle irons, and the ends of the cross bar 13, are cut away at 14, to form flanges 15, to embrace the rear surface of said angle irons, as clearly shown in the drawing. By this construction the frame is mounted on the truck and can be slid up and down, or rapidly vibrated vertically, as will presently appear.

At the upper ends of the boards, and extending across the face of same, is a U-shape guide 15^a, provided with appropriately disposed ears 16, through which pass fastening screws, or the like. Slidably mounted in the U-shape guide are a pair of adjustable bag holders 17—17, each comprising a horizontal member 18, curved upwardly at one end and twisted and then bent forwardly and downwardly as at 19. The extreme outer end of each bent portion 19, is pointed to form a bag engaging prong 20, and extending laterally from the side of said bent portion, at a suitable predetermined distance, is a bag engaging pin 20^a.

Pivoted on the rear of the upper cross bar 4, is a lever 21, to the inner end of which is secured a rope or cable 22. This cable extends down between the U-shape guide and the cross bar, and thence through an opening 23, in the right hand board 11, then across the front of both boards and through an opening 24, to the rear of the boards. The cable is then passed over the cable where it enters the opening 23, as indicated at 25, and its end hangs free, friction holding the cable in adjusted position when the apparatus is in use.

To the outer end of the lever 21, is attached an operating cable 26, the lower end of which is fastened to a foot lever 27, pivoted at 28, to the rear of the cross brace 6. The foot lever is held in position by a finger 29, extended from the support 3.

When in use the truck is tilted to stand in a vertical position the bent ends of the side bars and the support 3 resting on the ground. The wheels 9, are of such proportion as to engage the ground when the truck is in vertical position to assist in steadying the structure when filling a bag.

When in use, the bag holders are laterally adjusted to suit the approximate width of the bag, the pointed ends engaging the front of the bag, as shown in Fig. 1, while the side pins engage the sides of said bag.

The bag holder as a whole is adjusted vertically by lifting it slightly to remove the weight of the holder from the cable, which leaves the latter slack, and then by pulling on the free end of the cable 22 the slack is taken up. The holder is released and its weight tightens the cable and a bite is formed adjacent the point indicated at 25. When this

adjustment is made, the bottom of the bag rests on the support 3, and its mouth is held wide open to receive the contents. The weight of the bag on the horizontal portions of the bag holding arms, causes the latter to frictionally engage the walls of the U-shape guide, and as the bag is filled the friction increases, hence the bag and the holders are retained in relation.

As the bag is being filled it is necesary to jig or vibrate it to shake down the contents. To do this the attendant places his foot on the end of the foot lever 27, and quickly rocks it on its pivot, which through the connections described vibrates the whole bag holder and the bag. In this movement the side boards 11—11 are guided by the angle irons. Due to the course of the cable it is automatically held in adjusted position after the desired height of the bag holder is obtained.

From the foregoing description, it will be seen that I have provided a simple and positive means for holding a bag in open position, and simple means for shaking down the contents of the bag, and effective automatic means for holding the parts in adjusted position.

When not in use for filling, the bag holding arms are forced together, and by grasping the handles 5, the apparatus may be tilted and wheeled away.

What I claim is:—

1. A bag holder comprising a pair of bars formed with ribs, a frame provided on its side edges with grooves to engage the ribs, a V-shape guide on the front of the frame, adjustable bag holders mounted to slide laterally in the V-shape guide, a pivoted lever located above the frame, a flexible connection between the frame and the pivoted lever, the flexible connection being twisted to form a lock to hold the frame in adjusted position, and means connected to the pivoted lever to vertically vibrate the frame.

2. A bag holder comprising a pair of bars, a frame engaging the bars, guide ways on the frame to embrace the bars, a transverse guide on the front of the frame, bag holders slidably mounted in the transverse guide, means including a cable passed through openings formed in the frame and twisted to form a lock to hold said frame in adjusted position, and means attached to the cable for vibrating the frame to shake down the contents of the bag when filling.

3. A bag holder comprising a pair of side bars formed of angle iron, a platform at the ends of the side bars, a frame comprising a pair of spaced boards which slide on the angle irons, a brace connecting the bottom of the boards, a cross bar connecting the upper ends of the boards and having its ends cut away to form guide ways to engage the rear of the angle irons, a U-shape guide connecting front portions of the boards, bag holders frictionally engaging the U-shape guide, and means for vertically adjusting the frame.

4. A bag holder comprising a pair of bars, a frame mounted on the bars, said frame being formed with a pair of openings, adjustable bag holders on the frame, a cable depending from the upper portion of the structure and extended through one of the openings and thence across the frame and through the other opening, said cable then passing over the portion of the cable located adjacent the first mentioned opening to form a friction grip, the lower end of the cable being free, whereby to provide means for adjusting the frame.

5. A bag holder comprising a pair of bars, a frame mounted on the bars, said frame being formed with a pair of openings, adjustable bag holders on the frame, a cable depending from the upper portion of the structure and extended through one of the openings and thence across the frame and through the other opening, said cable then passing over the portion of the cable located adjacent the first mentioned opening to form a friction grip, the lower end of the cable being free, whereby to provide means for adjusting the frame, and means including a foot lever for vibrating the frame to shake down the contents when filling the bag.

6. A bag holder comprising a pair of bars, a frame adjustably mounted on the pair of bars, bag holders adjustably mounted on the frame, a pivoted lever, a flexible connection between one end of the lever and the frame, a pivoted foot lever near the lower end of one of the bars, a flexible connection between the foot lever and the outer end of the pivoted lever, and a catch to engage the foot lever.

J. WESLEY WHITE.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D.C."