R. I. McNAUGHTON.

SACK HOLDER.

APPLICATION FILED SEPT. 4, 1918.

1,329,985. Patented Feb. 3, 1920.

Fig. 1.

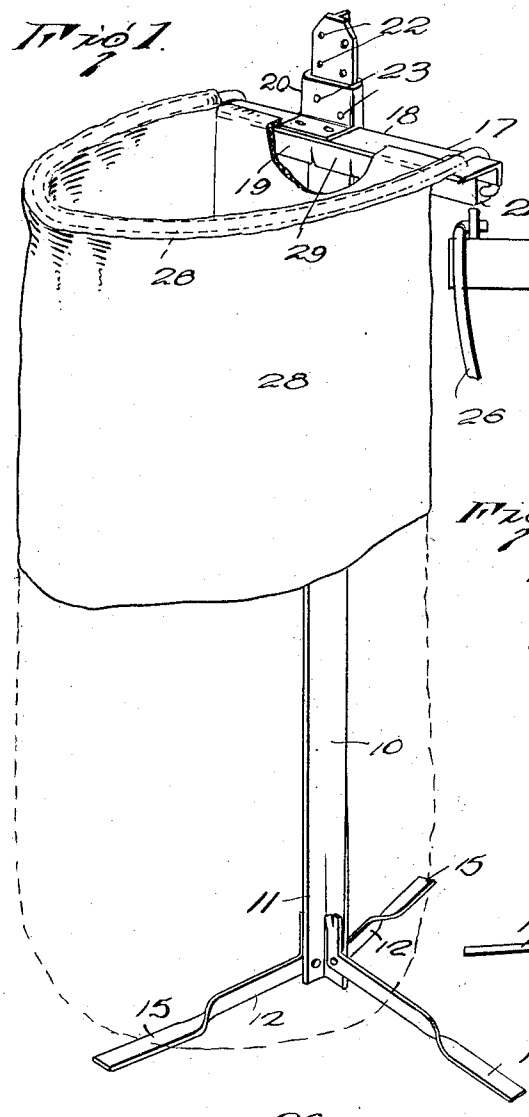


Fig. 2.

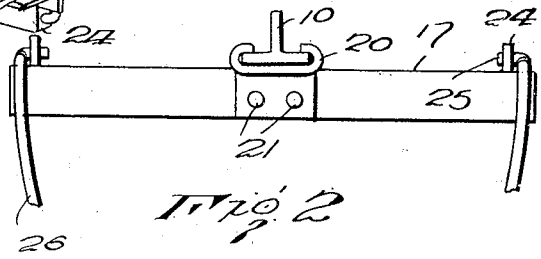


Fig. 3.

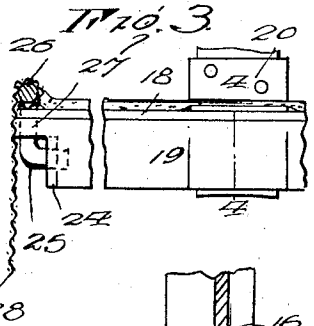


Fig. 4.

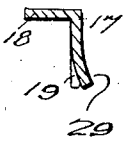


Fig. 5.

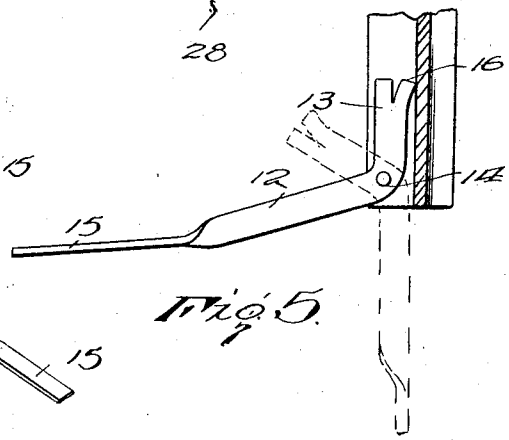
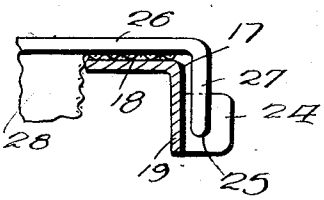


Fig. 6.



Robert I. McNaughton
Inventor

By Geo. P. Kimmel
Attorney

UNITED STATES PATENT OFFICE.

ROBERT I. McNAUGHTON, OF MINOT, NORTH DAKOTA.

SACK-HOLDER.

1,329,985. Specification of Letters Patent. Patented Feb. 3, 1920.

Application filed September 4, 1918. Serial No. 252,570.

To all whom it may concern:

Be it known that I, ROBERT I. McNAUGHTON, a citizen of the United States, residing at Minot, in the county of Ward and State of North Dakota, have invented certain new and useful Improvements in Sack-Holders, of which the following is a specification.

This invention relates to sack holders and more particularly to an improved device for holding a grain sack or the like while the same is being filled.

The primary object of the invention is to provide a sack holder which can be readily taken apart or folded to occupy a minimum of space when not in use or when being shipped, the holder proper for the sack being so constructed as to more tightly clamp the sack as the weight within the sack increases, novel means being also provided for supporting the sack upon the clamp and for adjusting the clamp along the post of the holder and otherwise simplifying the construction of the device, as will be hereinafter pointed out.

With the above objects and others in view as will appear as the description proceeds, the invention comprises the novel features of construction, combination of elements and arrangement of parts which will be more fully described in the following specification and then set forth with particularity in the clauses of the claims appended hereto.

Reference is had to the accompanying drawings forming a part of this application, wherein similar characters of reference will refer to corresponding parts throughout the several views, in which—

Figure 1 is a perspective view of my improved sack holder with a sack applied thereto, a portion of the sack being broken away,

Fig. 2 is a fragmentary plan view of the holder,

Fig. 3 is a fragmentary sectional front elevation;

Fig. 4 is a vertical sectional view taken on the line 4—4 of Fig. 3,

Fig. 5 is a vertical sectional detail showing one of the foldable legs for the post or standard of the sack holder, and

Fig. 6 is a sectional detail showing the manner of clamping the sack.

My improved sack holder is shown as comprising a vertical post or standard 10 in the form a T-beam, having the lower portion thereof shown at 11, bent so that the wings thereof are disposed equidistantly apart, that is to produce equal angles therebetween. This means serves for the attachment of the legs 12, said legs consisting of vertically disposed inner portions having their inner extremities bent upwardly as shown at 13 and pivotally connected as shown at 14 adjacent to the bent portions thereof, horizontally to the flanges or wings of the portion 11 of the standard or post. The free ends of the legs are twisted to provide horizontal tread portions 15 and the vertical portions 13 are split as shown at 16, so as to be adjusted or bent to engage the flanges or wings of the post as is particularly shown in Figs. 1 and 5 of the drawings, to dispose the legs for proper engagement with the ground or supporting surface below the bottom of said post or standard, as well as to permit the same to be extended contiguously with the post or standard, for occupying a minimum space for packing or transportation. It will also be seen that the legs will substantially support the post or standard when opened out angularly beneath the same, in which positions the vertical portions 13 will sustain the weight carried by the post.

The upper portion of the post is of T-shaped cross section and is adapted to adjustably receive thereon, a cross arm 17 of right angular cross section having a horizontal portion 18 and a vertical portion 19, said arm having intermediately secured thereto, an open sleeve 20 designed to engage the flange portion of the standard and which is secured to said cross arm by a flange, as shown at 21 intermediately of the length of the latter. The standard is provided with a series of openings 22 spaced apart vertically to receive pins 23 disposed through said openings in conjunction with correspondingly spaced openings in the sleeve 20, thereby permitting vertical adjustment of the holder proper.

The lower portion of each end of the portion 19 thereof is bent rearwardly to provide apertured ears or clips 24 in which are pivotally engaged inwardly extending extremities 25 of a sack supporting hoop 26, said hoop having its end portions bent downwardly as shown at 27 and then bent inwardly to engage said ears in order that the hoop will be pivotally supported upon the cross arm to permit it to be raised whereby the hoop will be disengaged from the horizontal portion 18 of the cross arm or to be

supported by said horizontal portion when the sack 28 is supported upon the hoop.

In order to sustain the weight of the sack and contents, the vertical portion 19 of the cross arm is slotted at spaced points and bent rearwardly to provide a guideway 29 engaging the standard and also serving as a supporting means. The sack is applied to the hoop from the front, with the seam of the sack above the bar loop or hoop and then drawn tightly, so that the sack will extend between the portions of the loop which cross the horizontal portion 18 of the cross arm, and said cross arm, and extend between said side portions of the loop or yoke 26, thereby exerting pressure against the sack so that it will be more tightly clamped in position, the more weight the sack exerts thereon by reason of the increase in the volume of the contents of the sack and its weight. This is one of the principal features of the invention, as it is a very efficient means for supporting the sack and for tightly gripping the same by the weight of the contents thereof, the grip becoming more firm as the sack is filled. It will also be observed that the sack extends across the top portion 18 of the cross arm 17 between the legs of the loop or yoke, being thereby held under tension throughout the top portion of the sack, thereby holding the sack fully open to receive the grain or other contents.

From the foregoing description taken in connection with the accompanying drawings, it is thought that a clear and comprehensive understanding of the construction, operation and advantages of my invention may be had, and while I have shown and described the device as embodying a specific structure, I desire that it be understood that such changes may be made in said structure as do not depart from the spirit and scope of the invention as claimed.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is:

1. A sack holder comprising a vertical standard, a cross bar slidably connected with the standard and provided with a depending flange having engagement with the standard, the end portions of the flange being cut and bent to provide rearwardly extending ears, and a yoke having its arms extending across the cross bar and provided with depending end portions fitting into openings formed in the ears.

2. A sack holder comprising a vertical standard, a cross bar provided with a depending flange having a tongue extending for frictional engagement with the standard, the end portions of the flange being cut and bent to provide rearwardly extending ears, a collar slidably connecting the cross bar with the standard, and a yoke extending across the cross bar and having depending end portions fitting into openings formed in the ears.

In testimony whereof, I affix my signature hereto.

ROBERT I. McNAUGHTON.