March 2, 1926. 1,575,233

R. H. STILLMAN

BAG HOLDER AND FILLING DEVICE

Filed Oct. 23, 1924

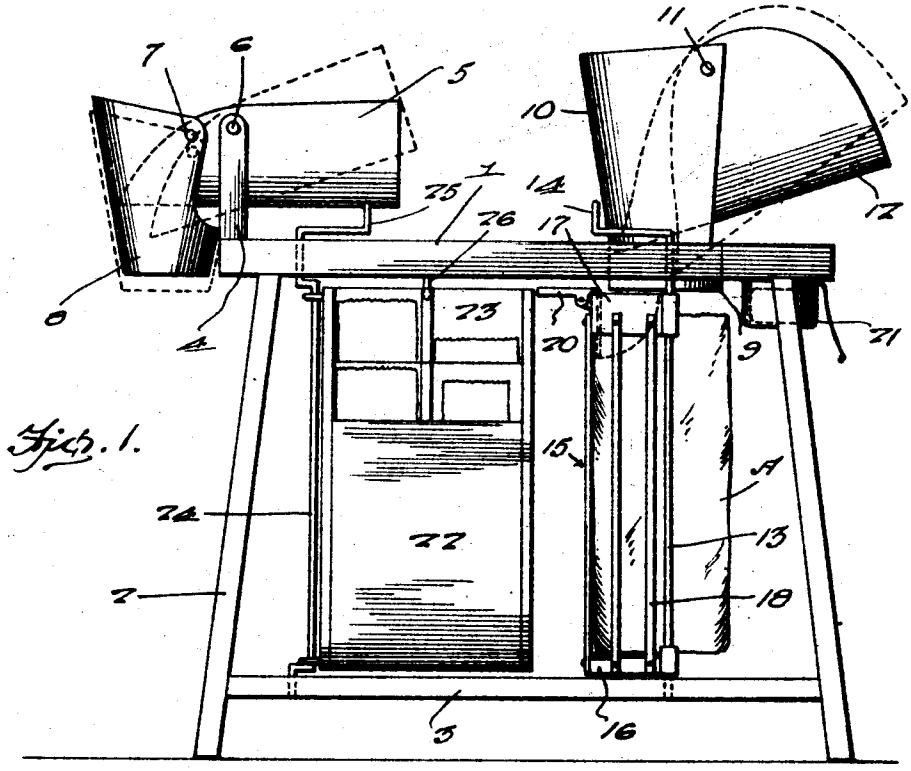


Fig. 1.

Fig. 2.

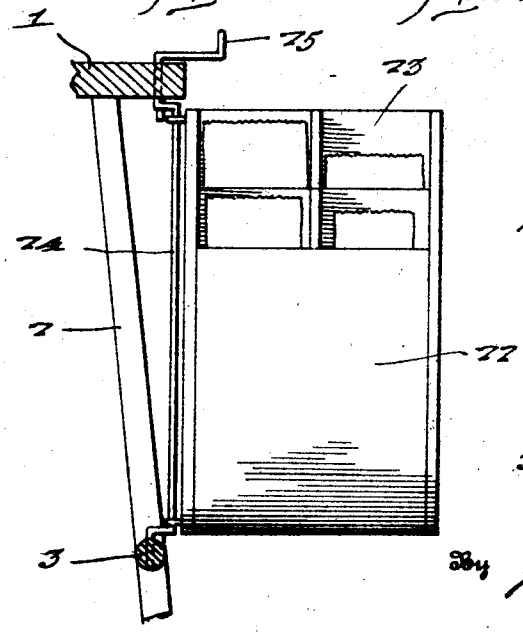
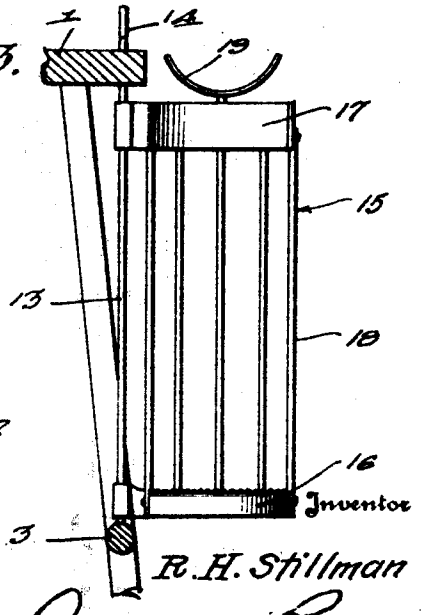


Fig. 3.



Inventor

R. H. Stillman

By Clarence A. O'Brien

Attorney

Patented Mar. 2, 1926. 1,575,233

UNITED STATES PATENT OFFICE.

RAYMOND H. STILLMAN, OF EATONTOWN, NEW JERSEY, ASSIGNOR OF ONE-HALF TO FREDERICK BADEN, OF MONMOUTH COUNTY, NEW JERSEY.

BAG HOLDER AND FILLING DEVICE.

Application filed October 23, 1924. Serial No. 745,469.

To all whom it may concern:

Be it known that I, RAYMOND H. STILLMAN, a citizen of the United States, residing at Eatontown, in the county of Monmouth and State of New Jersey, have invented certain new and useful Improvements in a Bag Holder and Filling Device, of which the following is a specification.

This invention relates to improvements in bag holders and filling devices and has for its principal object to provide a simple and efficient means whereby bags may be filled with merchandise in a simple and efficient manner.

A further object of the invention is to provide a device of the above mentioned character, which is especially adapted to be used in the handling of retail merchandise, such as in a grocery store or the like whereby considerable time and labor will be saved in filling bags.

A further object of the invention is to provide a device of the above mentioned character, which includes a means for supporting a bag below a suitable hopper for communication therewith, means being further provided for swinging the bag holder outwardly from cooperative relation with the hopper so that the bag after the same has been filled may be removed from the holder.

A further object is to provide a device of the above mentioned character, which is simple in construction, inexpensive, strong and durable and furthermore adapted for the purposes for which it is designated.

Other objects and advantages of this invention will become apparent during the course of the following description.

In the accompanying drawing forming a part of this specification and in which like numerals designate like parts throughout the same:

Figure 1 is a side elevation of the device embodying my invention.

Figure 2 is a detail view showing the bag rack swung outwardly from the stand, and

Figure 3 is a similar view showing the bag holder in its outwardly swung position.

In the drawing, wherein for the purpose of illustration is shown the preferred embodiment of my invention, the numeral 1 designates a supporting table or stand, the supporting legs therefor being illustrated at 2. Bracing means such as is shown at 3 is adapted to extend between the lower portions of the supporting legs in any well known manner. A substantially U-shaped bracket 4 is supported on the table 1 adjacent one end thereof and pivotally supported between the upper ends of the arms of the U-shaped bracket 4 is a scoop 5, the pivotal support therefor being illustrated at 6. The open discharge end of the scoop 5 extends beyond the outer end of the table 1 and pivotally supports thereon as at 7 the funnel 8, the smaller end thereof being disposed downwardly. The purpose of this construction is to provide a means whereby small bags may have their open ends placed over the smaller end of the funnel whereby the contents of the scoop may be discharged through the funnel into the bag by the swinging of the inner end of the scoop upwardly into the position as shown in the dotted lines in Fig. 1.

Extending through a suitable opening provided in the table 1 adjacent the opposite end thereof is the neck 9 of a vertically extending hopper or funnel 10. The latter is substantially semi-circular in plan and pivotally supported in the open portion of the hopper or funnel 10 as at 11 is a scoop 12. The inner end of the scoop 12 is adapted to cooperate with the neck 9 of the hopper or funnel 10 in the manner clearly illustrated in Figure 1.

A vertically extending shaft 13 is journaled at its lower end in the brace 3, the upper portion of the shaft extending through the table 1 and terminating in the crank portion 14 which provides a handle for rotating the shaft. The shaft is preferably located adjacent the opening provided in the top of the table and through which the neck 9 of the hopper extends. Secured to the shaft 13 and adapted for rotation therewith is a bag holder designated generally by the numeral 15, the same comprising a base 16 and a semi-circular band 17 supported on the upper portion of the shaft directly below the table top. A plurality of vertically extending parallel spaced rods 18 are secured at their respective ends to the periphery of the base 16 and the outer face of the band 17 in a semi-circular manner whereby access to the bag holder may be conveniently had.

A spring clamp 19 is hingedly associated with the band 17 of the bag holder 13 for

holding the upper edge of the bag A in position on the bag holder and a handle 20 is associated with the clamp 19 for swinging the same upwardly into an inoperative position.

When an empty bag A is placed in the bag holder and is secured in position thereon in the manner as above stated, the open end of the bag will be disposed directly below the neck of the hopper and the bag A may be filled with the merchandise which has been placed in the pivoted scoop 12 by swinging the scoop 12 into the position as shown in the dotted lines in Figure 1. After the bag A has been filled, the shaft 13 is rotated by turning the handle 14 in one direction causing the bag holder and the full bag supported thereon to be swung outwardly from the table into the position as shown in Figure 3 of the drawing and by actuating the handle 20, the clamp 19 is disengaged from the upper edge of the bag and the latter may be readily removed. A ball of twine is placed in a suitable receptacle 21 secured to the under side of the table whereby any length of twine may be obtained for tying the upper open end of the bag after the same have been filled.

By rotating the handle 14 in the reverse direction, the bag holder together with an empty bag supported therein is again disposed into cooperative relation with the neck 9 of the hopper or funnel 10 whereby the bag may be filled.

A bag rack such as is shown generally at 22 includes a plurality of compartments 23 for receiving and holding various sizes of empty bags. The bag rack is supported on a shaft 24 similar to the shaft 13, the lower end of the shaft 24 being journaled in the brace member 3, the upper end extending through the table top and terminating in a handle portion 25. Normally the bag rack is disposed below the table top and a stop such as is shown at 26 limits the inward swinging movement of the rack. By rotating the handle 25 in one direction, the bag rack is adapted to be swung outwardly from the table so that access to the various empty bags in the compartment 23 may be had.

It will thus be seen from the foregoing description, that a device has been provided which will save considerable time and labor in the filling of bags with merchandise. The device may not only be used in the handling of farm products, but also in the handling of granular material if so desired.

While I have shown the preferred embodiment of my invention, it is to be understood that various changes in the size, shape and arrangement of parts may be resorted to without departing from the spirit of the invention and the scope of the appended claims.

Having thus described the invention, what I claim is:—

1. In combination, a table, a bracket on the table, a scoop pivotally mounted intermediate its ends on the bracket, and a hopper having a side opening in the upper portion only thereof into which said scoop extends, and a fixed pivot between the hopper and the scoop.

2. In combination, a table, a hopper member pivotally mounted on the table and provided with an opening the upper portion only of its side, a scoop member having one end disposed through the opening in the hopper, a fixed pivot between the scoop and hopper members, and one of said members being pivotally mounted on the table.

In testimony whereof I affix my signature.

RAYMOND H. STILLMAN.