No. 750,174. PATENTED JAN. 19, 1904.

F. DENISE & W. T. BUCK.

BAG HOLDER.

APPLICATION FILED OCT. 28, 1903.

NO MODEL.

Fig. 1.

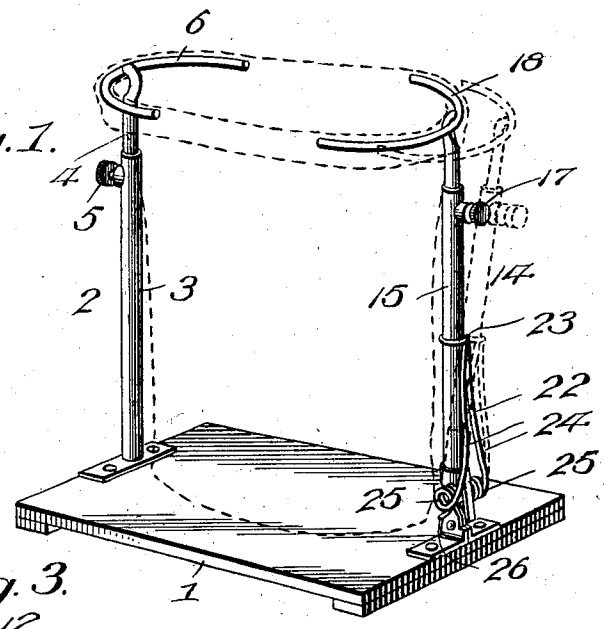


Fig. 3.

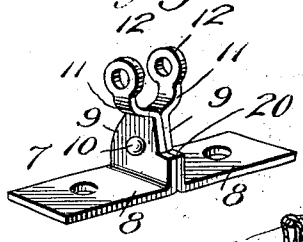


Fig. 4.

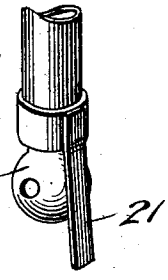
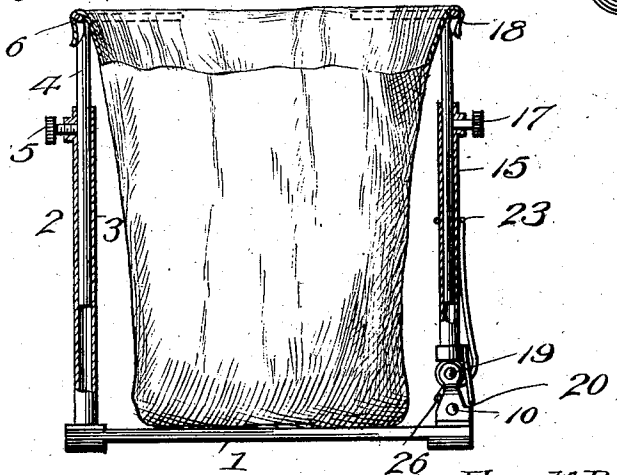


Fig. 2.



Witnesses

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UNITED STATES PATENT OFFICE.

FRANK DENISE AND WILLIAM T. BUCK, OF FREEHOLD, NEW JERSEY.

BAG-HOLDER.

SPECIFICATION forming part of Letters Patent No. 750,174, dated January 19, 1904.

Application filed October 28, 1903. Serial No. 178,843. (No model.)

To all whom it may concern:

Be it known that we, FRANK DENISE and WILLIAM T. BUCK, citizens of the United States, residing at Freehold, in the county of Monmouth and State of New Jersey, have invented new and useful Improvements in Bag-Holders, of which the following is a specification.

This invention relates to a bag-holder of that class having upright supporting devices. The bag is placed and held in position by simply rolling the top of the bag over semicircular arms at the upper portion of the holder, the arms holding the bag in an open position ready for filling. When the bag is filled and ready for removal from the holder, it is only necessary to unroll the top of the bag from the arms, thus avoiding lifting of the bag and its contents, and permit the bottom of the bag to always remain on the platform. This operation is rendered possible by the use of sliding standards and clamping means therefor, to which the holding-arms are attached, and permitting the bag to be held firmly on the base of the holder irrespective of the height of said bag. When hooks are employed, such as are generally used on devices of this kind for holding the bag, they are not only liable to tear the fabric of the bag, but they carry nearly all the weight and necessitate lifting a bag and its contents for removal from a holder. In the use of hooks, teeth, clamps, or other sharp or pointed contrivances for holding the bag the fabric of the latter becomes punctured and torn after continuous use, and it becomes difficult to tie or sew the bag when filled in such manner that its contents will not be spilled.

The present bag-holder includes in its structure an oscillating or movable standard which operates not only to hold the mouth of the bag taut, but also permits a ready or self adjustment of the holder to any ordinary width or diameter of bag. The entire holder can be cheaply made, is light, durable, and easily operated. It can be readily placed on a small platform-scales and used under a conveyer or chute, making it a most useful article for millers, and, in fact, all manufacturers or handlers of bagged goods, such as grain, feed, fertilizer, salt, &c.

The invention consists in the construction and arrangement of the several parts, which will be more fully hereinafter described and claimed.

In the drawings, Figure 1 is a perspective view of a bag-holder embodying the features of the invention, showing the position of a bag in dotted lines when supported thereby. Fig. 2 is a side elevation showing parts broken away and the arms in section, illustrating a bag held thereon. Fig. 3 is a detail perspective view of a fulcrum-bracket forming part of the improved holder. Fig. 4 is a detail perspective view of the lower extremity of one of the standards.

Similar numerals of reference are employed to indicate corresponding parts in the several views.

The numeral 1 designates a base or supporting-platform, which may be of any suitable dimensions and has rigidly secured at one end a standard 2, comprising a tubular upright 3 with an extensible rod 4 adjustably mounted therein and adapted to be held in fixed position by a set-screw 5. On the upper terminal of the rod 4 is a semicircular arm 6. At the opposite end of the base a fulcrum-bracket 7 is rigidly secured and preferably comprises two angle-plates 8, having upstanding members 9 at their inner edges secured to each other by a transversely-extending rivet or analogous device 10. The members 9 terminate in upper reduced upwardly-struck arms 11, having oppositely-disposed eyes 12. The arms 11 are so bent in relation to each other as to provide a partially-embracing socket for a ball or spherical terminal 13 at the lower end of a standard 14, consisting of an upright tube 15, carrying the ball or spherical terminal 13, and a rod 16, extensibly mounted in the tube and adapted to be held in fixed adjusted position by a set-screw 17, the upper end of the rod having a semicircular arm 18 thereon similar to the arm 6 and diametrically opposed to the latter when the parts are in normal position. The ball or spherical terminal 13 is movably held between the arms 11 by a pivot-

pin or rivet 19, passed through the said arms and ball or terminal 13. The members 9 at their outer edges are unitedly formed with a shoulder 20 to provide a stop means for contact with a depending guard 21, secured to the outer portion of the standard 14 adjacent to the ball or terminal head 13.

The standard 14 normally stands at an outward inclination, with the lower end of the guard 21 bearing against the shoulder 20, as indicated by dotted lines in Fig. 1, and this position of the standard 14 is maintained through the medium of a tension-spring 22, having its upper extremity 23 looped around the standard 14 and the two members 24 continued downwardly in divergent planes and formed into coils 25, arranged close to the outer surfaces of the arms 11 and connected by a loop 26, which passes around the inner edge portion of the members 9 below the said arms 11. The outward normal inclination of the standard 14 is such as to exert sufficient holding pressure on a bag of maximum width at its mouth without requiring the adjustment of any part or parts to arrive at this result and rendering the operation of the standard 14 automatic in applying the necessary tension to the bag to sustain the latter in connection with the arms 6 and 18. Furthermore, the guard 21 prevents the standard 14 from falling completely over or to such a low level that inconvenience would arise in reaching for the same and applying it to a bag.

In applying a bag to the improved holder the rods 4 and 16 are adjusted to accommodate the length of the bag to be filled, and the top of the bag is then rolled over the arms 6 and 18, the standard 14 and parts carried thereby for holding the bag being first pressed inwardly toward the opposite standard 2 and held in practically upright position, as clearly shown in full lines by Figs. 1 and 2. The bottom of the bag rests on the upper surface of the base during the filling operation, and when the latter is completed it is unnecessary to lift the bag to disengage it from the arms 6 and 18 in view of the fact that the upper edge of the bag may be disengaged from said arms by unrolling the same. It will also be seen that the upper or mouth portion of the bag is not in the least punctured or injured by the arms 6 and 18, with material advantages heretofore noted.

Changes in the form, dimensions, proportions, and minor details of the several parts may be resorted to without in the least departing from the spirit of the invention.

Having thus fully described the invention, what is claimed as new is—

A bag-holder, having a base, a fixed standard at one extremity of the base, a fulcrum-bracket held on the base at a point opposite the fixed standard and provided with upstanding members terminating in outwardly-bent arms and also provided with an outer shoulder, a second standard having a lower spherical end held between the outwardly-bent arms and provided with a depending guard to engage said shoulder, and a spring connected to the standard held by the bracket and engaging a portion of the latter, both standards being vertically adjustable and having bag-holding means.

In testimony whereof we affix our signatures in presence of two witnesses.

FRANK DENISE.
WILLIAM T. BUCK.

Witnesses:
FREDERICK PARKER,
FRANK F. HENDRICKSON.