July 19, 1932. E. E. BEADLE 1,868,269

SACK HOLDER

Filed May 29, 1930

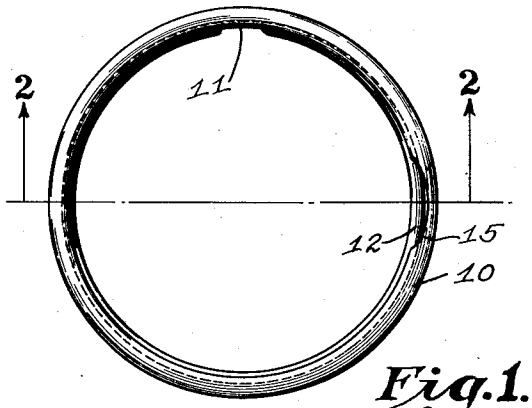


Fig. 1.

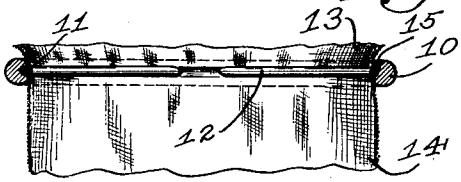


Fig. 2.

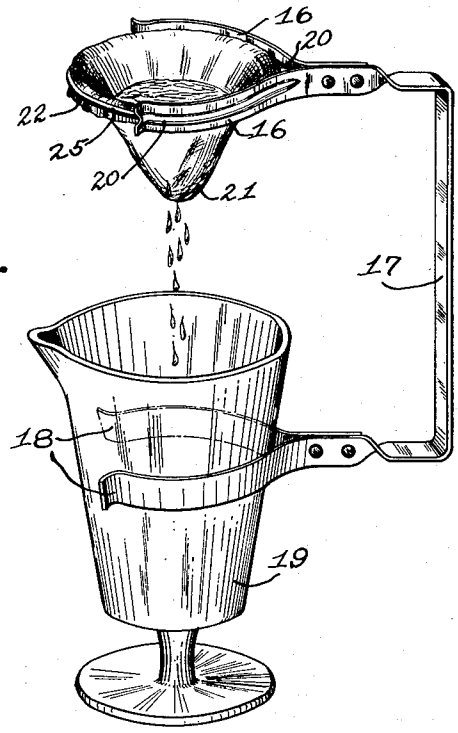


Fig. 3.

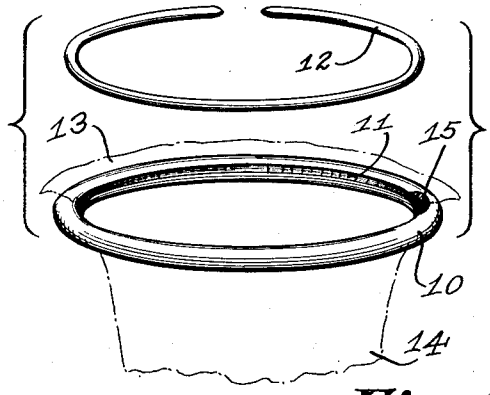


Fig. 4

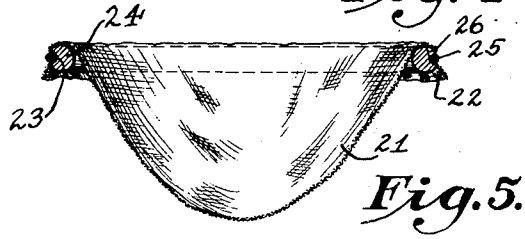


Fig. 5.

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UNITED STATES PATENT OFFICE

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SACK HOLDER

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This invention relates to sack or bag holders, and more particularly to a device of the above nature for detachably holding sacks of various diameters.

The objects of the invention are to provide a device of the above nature which will be simple in construction, inexpensive to manufacture, easy to assemble and manipulate, compact, ornamental in appearance, and very efficient and durable in use.

With these and other objects in view, there have been illustrated on the accompanying drawing two forms in which the invention may be conveniently embodied in practice.

In the drawing:

Fig. 1 represents a top plan view of the assembled holding rings of the first form of the invention.

Fig. 2 is a front sectional view of the same, taken along the line 2—2 of Fig. 1, looking in the direction of the arrows and showing the sack in attached position.

Fig. 3 is a perspective view of a filtering sack having its upper edge clamped between a pair of modified holding rings, the latter being shown carried in the upper jaws of a U-shaped clamping bracket, the lower jaws of which are resiliently clamped about a receptacle for the filtrate.

Fig. 4 is a perspective view of the first form of inner and outer rings in separated relation and showing the upper edge of the sack as it appears before the rings are assembled.

Fig. 5 is a front sectional view similar to Fig. 2 of the modified form of the invention in which a solid inner ring and a split resilient outer ring are employed for holding the end of the sack.

Referring now to the drawing in which like reference numerals denote corresponding parts throughout the several views, the numeral 10 indicates a solid continuous outer ring, substantially circular in cross-section, and having on its inner circumference a groove 11 of semi-circular section adapted to receive an inner split ring 12 of smaller diameter than said outer solid ring. The open upper end 13 of a sack 14 is adapted to be passed through the space between the inner and outer rings 10 and 12, as shown most clearly in Figs. 2 and 3, the resiliency of the split inner ring 12 permitting it to contract in diameter so that it may be pressed within the solid outer ring, and will then snap outwardly into groove 11 for holding the mouth 13 of the sack 14 securely between said rings.

In order to allow the sack to be readily removed whenever desired, the outer ring 10 is provided on its upper inner edge with an arcuate recess 15 for permitting the insertion of the finger of the operator for forcing one side of the split ring 12 inwardly away from the outer ring 10 for disengagement from the latter, whereupon the inner ring may be readily lifted out.

In the present embodiment of the invention the closed-bottom sack 14 of filtering material and its holding rings are adapted to be supported for filtering purposes within the upper jaws 16 of a U-shaped bracket 17, as shown in Fig. 3. The bracket 17 has a pair of lower jaws 18 for resiliently clamping about a glass graduate 19 or other receptacle within which the filtrate from the liquid being filtered is to be received.

In order to prevent the filtering sack from falling out of the upper jaws 16, said jaws are provided with horizontal grooves 20 adapted to fit snugly about the solid outer ring 10. By means of this construction, the sack-holding rings may be readily inserted in and removed from the upper jaws 16 as a unit whenever desired.

In the modified form of the invention shown in Fig. 5, the sack 21 has its open end 22 clamped within a groove 23 on the outside of the solid inner ring 24 by means of a larger split outer ring 25 of smaller cross-section, said ring 25 being similar to

the split ring 12 of the first embodiment of the invention. A finger engaging recess 26, similar to the recess 15 is also employed, said recess being in this instance on the outside of the solid ring 24 to permit the exterior ring 25 to be readily grasped for spreading it outwardly for removal from the groove 23 of the inner solid ring.

It will be understood that this construction permits sacks of a wide range of diameters to be held by the same clamping rings.

It will also be understood that open, as well as closed, bottom sacks may be employed within the spirit and scope of the invention. An example of the use of such an open bottom sack is conveying fruit and other materials in chutes.

Moreover, it is to be understood that the invention is not limited to the particular use herein disclosed, but may be employed in various other ways, such for example as for holding bags for receiving grain, mail, or metal articles of various kinds. The sacks to be held are not limited to any particular material and may be constructed from cloth, paper, rubber, leather, etc., as desired, according to the purpose for which the invention is to be used.

While there have been disclosed in this specification two forms in which the invention may be embodied, it is to be understood that these forms are shown for the purpose of illustration only, and that the invention is not to be limited to the specific disclosures but may be modified and embodied in various other forms without departing from its spirit. In short, the invention includes all the modifications and embodiments coming within the scope of the following claims.

Having thus fully described the invention, what is claimed as new, and for which it is desired to secure Letters Patent, is:

1. In a filtering apparatus, a U-shaped bracket having a vertical base and a pair of horizontal legs, the lower leg having a pair of open resilient jaws for embracing a filtrate receptacle, and the upper leg having a pair of open resilient jaws for embracing a pair of detachable filter-holding rings.

2. In a filtering apparatus, a U-shaped bracket having a vertical base and a pair of horizontal legs, the lower leg having a pair of jaws for embracing a filtrate receptacle, and the upper leg having a pair of jaws for embracing a pair of detachable filter-holding rings, said upper jaws having grooves adapted to snugly fit about said rings.

3. In a sack holder, a continuous outer ring having an interior circumferential groove, and a split inner ring of smaller diameter and smaller cross section adapted to be resiliently snapped within said groove for holding the open end of a sack therebetween, one edge of said groove having an arcuate finger recess extending outwardly therein from the inner rim thereof for exposing a portion of said inner ring to permit said inner ring to be readily grasped by the fingers of one hand and pulled inwardly for removal, said groove being shaped to embrace substantially the entire inner ring, and the assembled holder having no parts projecting inwardly beyond said inner ring.

In testimony whereof, I have affixed my signature to this specification.

EUGENE E. BEADLE.