W. M. DAY.

COLLAPSIBLE BUCKET.

APPLICATION FILED MAY 6, 1918.

1,289,410. Patented Dec. 31, 1918.

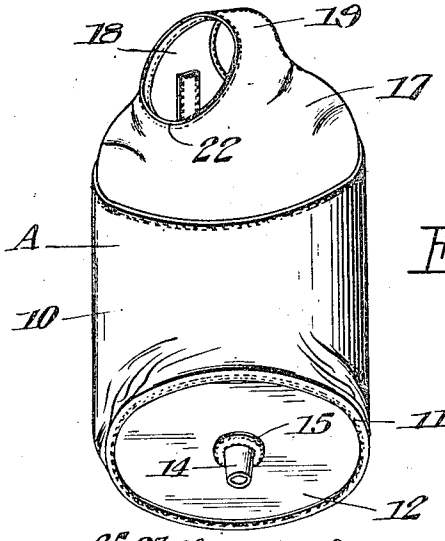


Fig. 1.

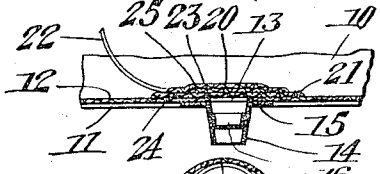


Fig. 2.

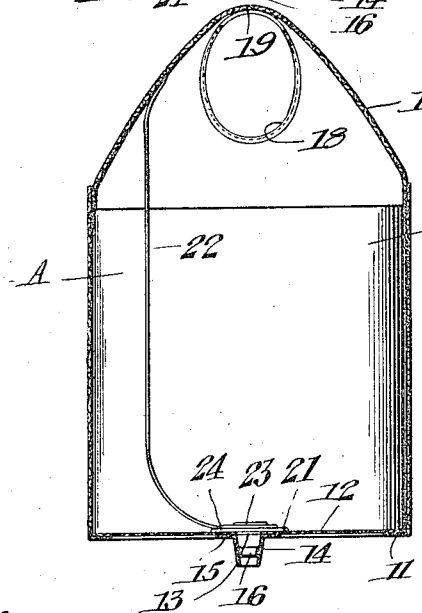


Fig. 3.

WITNESSES

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UNITED STATES PATENT OFFICE.

WILLIAM MILTON DAY, OF SMITH'S FALLS, ONTARIO, CANADA.

COLLAPSIBLE BUCKET.

1,289,410. Specification of Letters Patent. Patented Dec. 31, 1918.

Application filed May 6, 1918. Serial No. 232,865.

To all whom it may concern:

Be it known that I, WILLIAM M. DAY, a subject of the King of Great Britain, and resident of Smith's Falls, in the Province of Ontario and Dominion of Canada, have invented certain new and useful Improvements in Collapsible Buckets, of which the following is a specification.

This invention relates to improvements in collapsible buckets particularly adapted as an equipment for automobiles, camping outfits and the like, and the objects of the invention are to render the bucket compact in construction so that it will occupy a minimum of space when out of commission, to permit of the flow of water from the bucket being easily and quickly regulated, to provide means whereby a partial filtration of the water will take place so that matter in suspension will be removed therefrom as it flows from the bucket, and generally to adapt the several parts to better perform the functions required of them.

With the above and other objects in view, the invention consists essentially of the improved construction particularly described and set forth in the following specification and accompanying drawings forming part of the same.

In the drawings:

Figure 1 is a perspective view of the improved bucket.

Fig. 2 is a sectional view of the bottom of the bucket showing the strainer in the discharge conduit and the valve means controlling the flow of the water from the bucket.

Fig. 3 is a vertical section of the bucket.

Like characters of reference refer to like parts in the several figures.

Referring to the drawings, A represents the improved bucket which consists of a cylindrical body portion 10, the lower end of which is inturned as shown at 11 to form a flange to which the bottom 12 is sewn or otherwise secured.

The bottom 12 is provided with a concentric orifice 13, and a tapered conduit 14 is secured to the outer wall of the bottom in alinement with the said orifice.

To facilitate securing the conduit in place it is provided with a flange 15 at the upper end which is sewn or secured to the bottom 12. This conduit carries a strainer 16 which may be made removable for cleaning purposes, the object of the strainer being to arrest any solid matter in suspension in the water as the water is being discharged from the bucket.

The upper end 17 of the bucket is somewhat conical in shape, the lower edge being sewn or otherwise secured to the upper edge of the body portion 10.

Two orifices 18 are provided in the upper end 17 which permit of the ready filling of the bucket with water when the said bucket is submerged in a stream, lake or the like and the piece of material 19 which forms a bridge between two orifices constitutes a suitable hand grip by means of which the bucket may be suspended.

The conduit 13 in the bottom 12 is closed by a suitable flap valve 20 which is sewn along one edge as shown at 21 to the bottom 12 and a flexible member 22 is attached to the opposite end of the flap valve, the upper end of this flexible member being sewn or otherwise secured to the upper end of the bucket.

The flap valve 20 consists of two layers 23 and 24 of suitable material between which a filling 25 is inserted, the said filling being of such a nature as to prevent the flow of water therethrough into the conduit 14.

This bucket is designed to be made of canvas or other suitable fabric so that when it is not in use it will be of a collapsible nature and capable of being folded together to form a small compact bundle not likely to occupy much space in an automobile or a camping outfit.

When the bucket is in use and is filled with water the flap valve 20 prevents any leakage taking place to the discharge conduit 14. As the water is about to be used the flexible member 22 is pulled to rotate the flap valve 20 about the sewn edge and permit of the water in the bucket gaining access to the conduit 14 through which it is discharged and during this operation a partial filtration of the water takes place by the arrest of solid matter in the strainer 16.

This bucket when being used by motorists may be utilized for filling the radiator of an automobile when in the country, and to facilitate this operation the conduit 14 is somewhat tapered so that it will conveniently enter the inlet of the radiator.

When the conduit 14 has been inserted in the inlet of a radiator and the valve 20 opened through a manual pull being applied to the flexible member 22 the water passes through the conduit 14 and the solid

matter in the water is arrested by the strainer 16 so that there is no possibility of anything entering the radiator which would be inclined to impede the circulation of the water around the engine cylinders.

When the bucket is used in camping outfits, it may be suspended from a tree or like support by the hand grip 19 and as water is required it is only necessary to exert a pull on the flexible member 22 to open the valve 20 to the desired extent and permit of the water flowing through the conduit 14 into a basin or other utensil which it is desired to fill.

From this description, it will be seen that I have invented a collapsible bucket which can be advantageously utilized by motorists, hunters or picnic parties and in which the construction of the bucket is such that it can be advantageously packed in a minimum of space.

As many changes could be made in the above construction and many apparently widely different embodiments of my invention within the scope of the claims, constructed without departing from the spirit or scope thereof, it is intended that all matter contained in the accompanying specification and drawings shall be interpreted as illustrative and not in a limiting sense.

What I claim as my invention is:

1. A collapsible bucket having a valve in its bottom, a flexible body of substantially cylindrical form, an upper substantially conical portion of flexible material having openings extending therethrough leaving a portion to serve as a handle and a flexible member within the bucket attached at its upper end to the inner side of the conical portion adjacent the handle thereto and connected at its lower end with the valve, substantially as described.

2. A bucket of collapsible material having a valve on its interior centrally disposed at its bottom and controlling the outlet of water, a handle at the top of the bucket and a connection for operating the interior valve extending up therefrom within the bucket and fastened at its upper end adjacent the bucket handle, substantially as described.

In witness whereof I have hereunto set my hand in the presence of two witnesses.

WILLIAM MILTON DAY.

Witnesses:

F. J. PATTERSON,

WILSON MCCUE.

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