Dec. 2, 1952 F. SORRON-ZABALA 2,620,006

BUCKET

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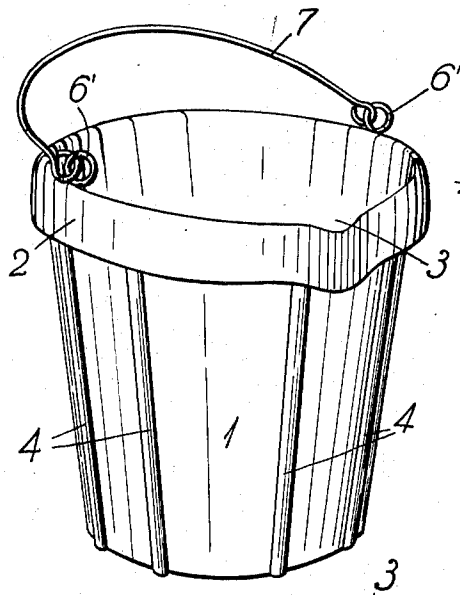

Fig. 1

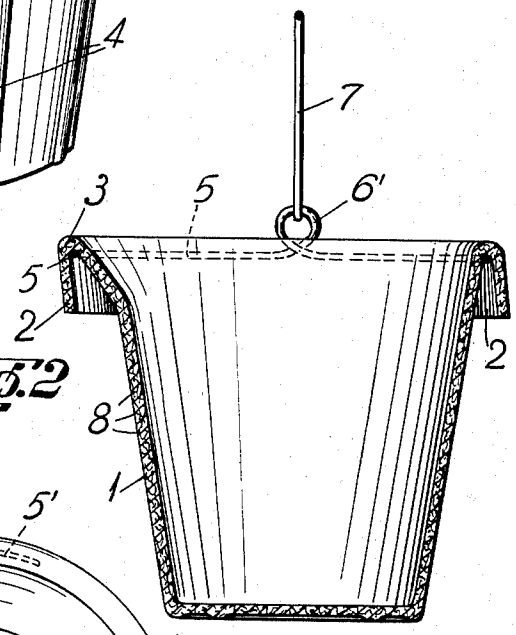

Fig. 2

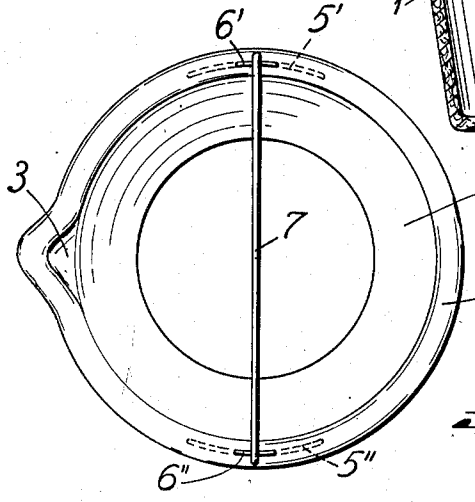

Fig. 3

INVENTOR
FRANCISCA SORRON-ZABALA
BY
Fris G. Hochwald
AGENT

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UNITED STATES PATENT OFFICE

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BUCKET

Francisca Sorron-Zabala, San Sebastian, Spain

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2 Claims. (Cl. 150—48)

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The invention refers to buckets.

An object of the invention is to provide a new type of bucket which is particularly adapted to contain and decant acids and corrosive liquids and is also suitable for domestic use.

An essential feature of the new bucket is that it is molded of a single piece of natural or synthetic vulcanized rubber which is reinforced by natural or synthetic textile fibers incorporated and evenly distributed in the rubber mass.

The rubber bucket may be provided with outer reinforcing molded ribs or stays, and/or with a spout. At the upper reinforced edge a metallic ring or two pieces of wire are provided, which at two diametrically opposite points form loops or ears for the attachment of a bail.

Other objects and advantages of the invention will be apparent with reference to the accompanying drawing, which shows by way of example an embodiment of the invention.

In the drawing:

Fig. 1 is a perspective view of a bucket according to the invention;

Fig. 2 is a sectional view along the line 2—2 of Fig. 1, and

Fig. 3 is a top plan view of the bucket.

The bucket represented in the drawings consists of an integral body 1 molded of natural or synthetic rubber in which natural or synthetic textile fibers 8 are incorporated. The bucket is provided with an upper edge 2, which is bent outwardly and downwardly, a spout 3, and molded stays 4. In the annular space defined by said bent upper edge 2, a metal ring 5 (Fig. 2) or two pieces of wire 5' and 5'' (Fig. 3) are placed, which form at two diametrically opposite points upwardly or outwardly projecting loops or ears 6' and 6'' respectively, which pass through apertures or slits provided in the edge of the bucket and serve for the attachment of the bail 7. These projecting loops 6' and 6'', as well as the bail 7, may be coated with hard rubber, synthetic resins or other projecting materials to prevent attack on the metal loops and bail by the liquid contained in the bucket.

The textile fibers 8 incorporated in the rubber mass impart, in combination with the outer stays 4, the necessary stiffness to the bucket without impairing its flexibility and ensure that the rubber will not be torn by mechanical impacts, e. g. when the bucket is used for carrying solid materials. The spout 3 facilitates the pouring of liquids and the flexibility prevents the bucket from scratching the floor or walls and furniture against which it may strike during its

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manipulation; it prevents further the risk of deformation or breaking if the bucket is dropped. The upper folded edge of the molded bucket extends so far downwardly, also around the spout 3, as to ensure protection of the metal ring 5 or the wire lengths 5', 5'', which serve for supporting the bail, against attack by the liquid contained in the bucket; on the other hand, the angle between the straight downwardly around the whole periphery of the bucket extending rim 2 and the body of the bucket is so adjusted as to allow to place, and replace, readily the bail supporting means in the annular groove formed by the folded edge.

As textile fibers I employ preferably twisted cotton fibers or yarns in lengths of 2 to 3 centimeters, such as may be obtained, for instance, by grinding residues or waste of used pneumatic tire covers. These fibers are very strong and have the advantage of being cheap and already impregnated with rubber.

I prefer to add 20 to 30% of such fibers calculated on the rubber and other ingredients of the bucket materials.

It will be obvious to those skilled in the art that details in the structure of the new pail or bucket, such as the distribution and the number of reinforcing molded stays and the length and percentage of the reinforcing fibers, may be changed within reasonable limits without departing from the spirit of this invention as defined in the appended claims.

What I claim is:

1. A bucket molded in one piece of rubber-like material reinforced by textile fibers evenly distributed throughout said rubber material, the upper edge of said bucket being bent outwardly and extending straight downwardly around the whole periphery of the bucket for a length sufficient to form a protecting rim, apertures at opposite points of said edge, and bail-supporting means placed inside said bent edge of the bucket and forming loops which project through said apertures, said loops being adapted to attach a bail.

2. A bucket comprising a rubber body containing 20 to 30 per cent of finely ground pneumatic tire cover waste incorporated therein, a straight downwardly extending rubber rim around the whole top of the bucket integral therewith, apertures at opposite points of said rim, metallic bail-supporting means placed in the groove formed by the rubber body and rubber rim and protected by said rim, and loops formed by said bail-supporting means, said loops projecting

through said apertures and being adapted to attach a bail.

FRANCISCA SORRON-ZABALA.

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