May 3, 1938. V. A. MAUGUY ET AL 2,116,077

CONTAINER FOR LIQUID SERVICING PRODUCTS

Filed March 17, 1937

Fig. 1

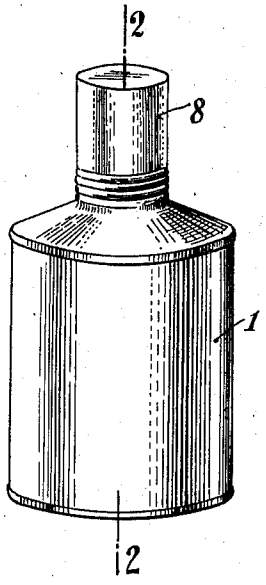


Fig. 2

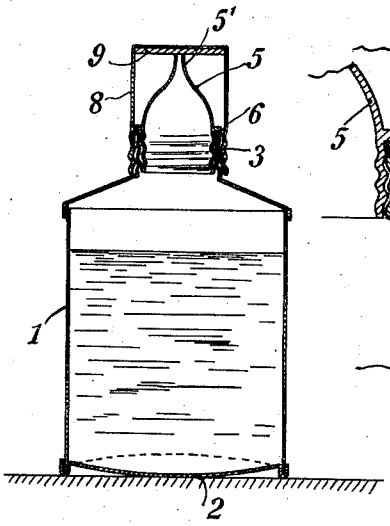


Fig. 3

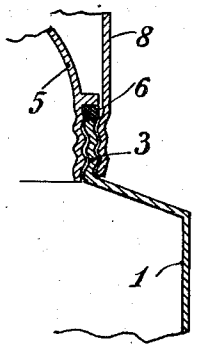


Fig. 4

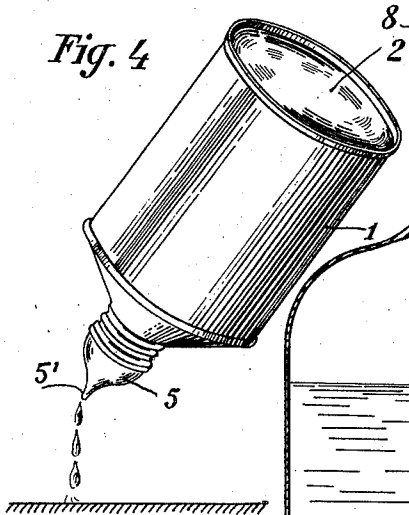


Fig. 6

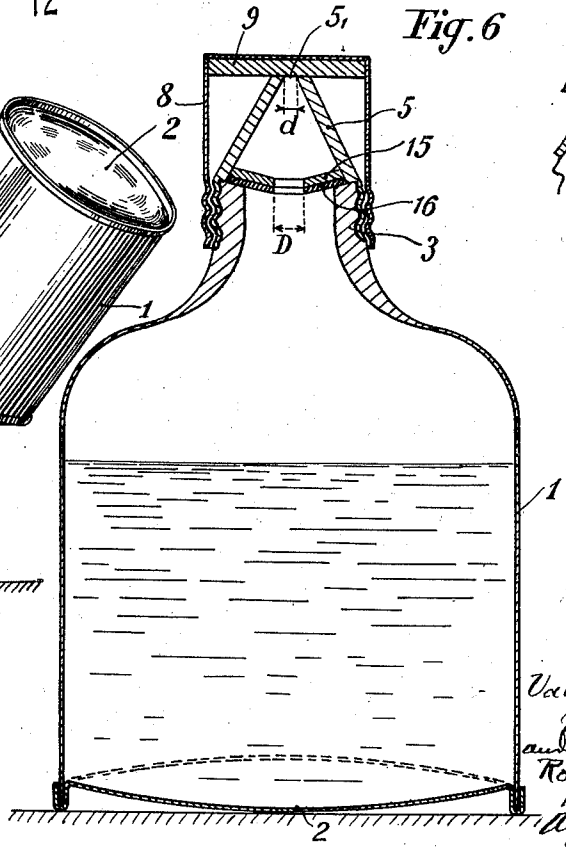
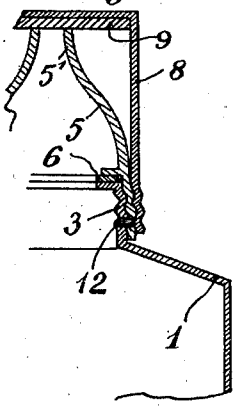


Fig. 5



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CONTAINER FOR LIQUID SERVICING PRODUCTS

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Application March 17, 1937, Serial No. 131,272
In France March 20, 1936

2 Claims. (Cl. 221—32)

The present invention has for its object to avoid any waste of liquid products for servicing footwear, furniture, floors, metals, and the like. It has particularly for its object to provide a container enabling just the sufficient quantity of the product to be delivered.

It also has for its object to provide a container easy to manufacture, of simple use and assembly and in consequence, of very reduced cost price.

It has also for its object to ensure perfect liquid-tightness of the container with a view to avoiding any loss of the product which it contains by accidental upsetting.

Containers which effect the above objects have the features set forth in detail in the following description and in the appended claims.

Containers according to the invention are shown by way of illustration on the accompanying drawing, in which:—

Fig. 1 is a perspective view of the closed container,

Fig. 2 a vertical central section along the line 2—2 of Fig. 1,

Fig. 3 a partial section on a larger scale showing the various elements assembled.

Fig. 4 is a perspective view of a container when used.

Fig. 5 is a partial section similar to Fig. 3 showing a modification.

Fig. 6 is a vertical central section of a modified container.

The container shown in Figs. 1 to 4, comprises essentially a metal body 1 of cylindrical shape or any other shape. This body 1 has on the one hand a deformable bottom 2, and on the other hand an internally and externally screw-threaded neck 3.

The deformable bottom 2 is of such thickness and elasticity that after having been subjected to a temporary deformation by the action of the finger of the user, it afterwards automatically regains its initial shape.

A spout 5 of mainly truncated conical shape is screwed by its large base on the internal screw thread of the screw-threaded neck 3. A ring 6 of yielding material compressed between a flange on spout 5 and the edge of neck 3 ensures the liquid-tightness of the joint between the spout 5 and the neck 3 (Fig. 3).

The spout 5 is formed with a nozzle 5^1 the outlet orifice of which is suitably gauged and has dimensions determined by the contents of the container 1 and by the amount of the maximum deformation which the bottom 2 can undergo.

Finally, a closure cap 8 is applied by being screwed onto the external screw thread of the neck 3. A pad 9 of yielding material, such as cork, inside the cap is applied against the gauged orifice of the spout 5 and thus ensures the liquid-tightness of the closure.

The container as above constructed is used in the following manner:—

The user, after having unscrewed cap 8, inverts the container 1 into the position shown in Fig. 4, and then, by one of his fingers, he deforms the bottom 2, as indicated by the dotted line in Fig. 2, which causes the expulsion of a determined amount of the liquid product contained in the container.

This arrangement thus permits the dropping on to the object (Fig. 4) of the amount just sufficient to polish the object. In consequence any useless loss of the product is avoided.

Numerous modifications may be applied to the construction described above by way of example. In particular, the spout 5 also may be screwed on the external screw thread of the neck 3, with a suitably interposed packing joint 6 as shown in Fig. 5. The spout 5 is then locked on the neck 3 by the aid of stop teeth 12, Fig. 5, interposed between the two screw threads. In that case, the closure cap 8 is screwed on the external screw thread of the spout 5.

In the modification shown in Fig. 6, a disc 15 of slightly conical shape is interposed between the neck 3 and the spout 5. This disc 15 forms a backing for a packing 16 located between the neck 3 and the disc 15. By virtue of its slightly conical configuration, the disc 15 cooperates with the spout 5 of truncated conical shape in ensuring the tightening of the packing 16.

This construction avoids providing a flange on the spout 5 for receiving the packing and therefore dispenses with any onerous tooling.

The disc 15, as well as the packing 16 which it backs, are perforated at their centre with an orifice of a diameter (D) greater than the diameter (d) of the gauged orifice 5^1.

This container is very economical, as the spout 5 without any flange, is very easy to manufacture and requires no onerous tooling.

The invention obviously extends to the above described containers, whatever be the nature and degree of viscosity of the products which they contain and whatever the particular purpose of these products.

We claim:

1. In a container for liquid servicing products, such as products for polishing foot-wear, furniture, floors, metals, etc., a container body having a neck and comprising a deformable wall for the expulsion of the liquid product from the container, a disk having a gauged orifice and adapted to be applied to said neck, a spout having a gauged orifice of smaller size than that of said disk, said spout being removably secured to said neck so as to firmly clamp said disk against said neck.

2. In a container for liquid servicing products, such as products for polishing foot-wear, furniture, floors, metals, etc., a container body having a neck and comprising a deformable wall for the expulsion of the liquid product from the container, a disk of slightly conical shape and having a gauged orifice and adapted to be applied to said neck, and a spout of truncated conical shape and having a gauged orifice of smaller size than that of said disk, said spout being adapted to be removably secured to said neck so as to firmly clamp said disk onto said neck.

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