No. 676,834. Patented June 18, 1901.

L. BLATZ.

NON-REFILLABLE PACKAGE FOR SEMISOLIDS.

(Application filed May 9, 1899.)

(No Model.)

Fig. 1.

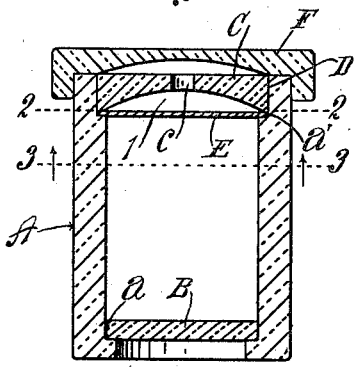


Fig. 2.

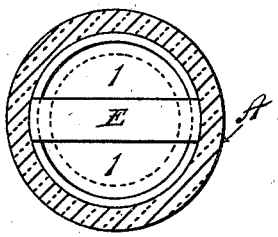
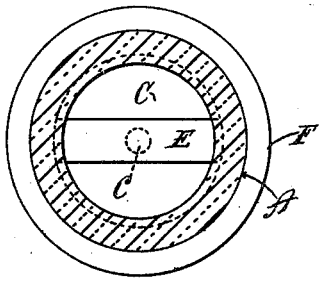


Fig. 3.



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UNITED STATES PATENT OFFICE.

LOUIS BLATZ, OF LA MIRADA, CALIFORNIA.

NON-REFILLABLE PACKAGE FOR SEMISOLIDS.

SPECIFICATION forming part of Letters Patent No. 676,834, dated June 18, 1901.

Application filed May 9, 1899. Serial No. 716,155. (No model.)

To all whom it may concern:

Be it known that I, LOUIS BLATZ, a citizen of the United States, residing at La Mirada, in the county of Los Angeles and State of California, have invented a new and useful Non-Refillable Package for Semisolids, of which the following is a specification.

The object of my invention is to provide a package for semisolids which will deliver the semisolid for use, but which package cannot be practically refilled.

The accompanying drawings illustrate my invention.

Figure 1 is a longitudinal mid-section of a package embodying my invention. Fig. 2 is a plan section on line 2 2, Fig. 1. Fig. 3 is a section on line 3 3, Fig. 1, looking up toward the top in direction of the arrows.

A indicates an open-ended tubular body.

B indicates a sliding stopper fitted in the tube. The tube is provided at one end with stopper-retaining means, such as the shoulder *a*, which prevents the stopper from being forced out at the lower end of the package. The stopper is of such thickness as to allow it to slide freely along the tube without cramping. Such thickness may be greater or less, as may be requisite or desirable.

C indicates a perforated stopper concave on its inner face and secured by any suitable cement or sealing material D in the other end of the tube A, which is the mouth of said tube.

a' indicates a seat in the tube A, in which the stopper C is seated. In the drawings a shoulder is shown; but the use of the shoulder is immaterial. Any suitable means for holding the bar and fixed stopper may be used.

E indicates a bar interposed between the slidable stopper B and the perforation *c* in the fixed stopper to prevent the sliding stopper from being moved by means of any instrument inserted through the fixed stopper. Passage *l* is provided from the body of the tube to the perforation *c* around the bar E, so that when there is a charge of the semisolid substance in the package such substance may be ejected through the perforation *c* by moving the movable stopper B toward the fixed stopper C.

In practical use the movable stopper B will be inserted into the tubular body A and brought into position against the shoulder *a* at the base of the tube. Then the tube will be filled with the semisolid substance desired to be stored in the package. Then the bar E will be laid in the seat *a'*, and the perforated stopper C will be inserted in the seat *a'* and secured in place by any suitable means—for instance, by cement or any suitable sealing material which will make a perfect bond between the fixed stopper C and the tubular body.

By preference the tubular body and the stopper C are formed of frangible material, so that the fixed stopper cannot be removed without breakage.

In use the semisolid substance is ejected from the perforation *c* by pushing the sliding stopper B toward the mouth of the tube, and thereby forcing the substance around the bar and through the perforation *c*. When in use, the stopper has been forced into contact with the bar. The package will be practically empty and cannot be refilled.

The protecting-bar makes refilling practically impossible.

The top of the package may or may not be provided with a removable cover, as at F, Fig. 1.

Now having described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A package for semisolids comprising an open-ended tubular body; a sliding stopper fitted in the tube; stopper-retaining means being provided at one end of the tube; a perforated stopper permanently secured in the other end of the tube; and a bar interposed between the slidable stopper and the perforation, with open passage from the body of the tube to the perforation of the stopper around the bar for emission of the semisolid.

2. A package for semisolids comprising a tubular body provided with a stopper-retaining shoulder at one end of the body and a stopper-seat at the other end of the body; a sliding stopper in the tube to slide between the shoulder and the seat; a bar seated on the seat and extending across the tube; and a stopper seated in the end of the tube and provided with a concave inner face and a perforation, the said bar being interposed between the sliding stopper and said perforation.

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Witnesses:
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