

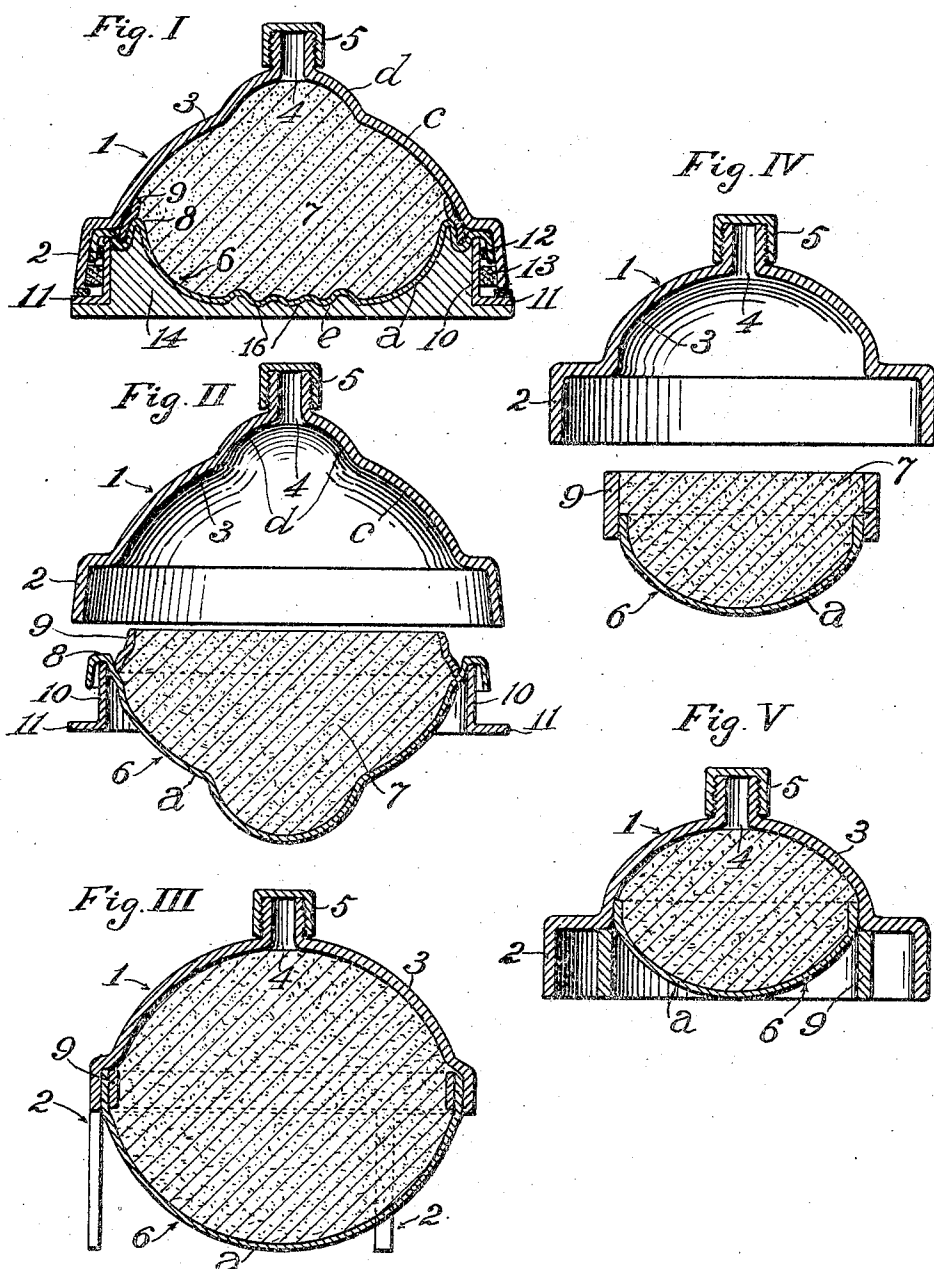
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L. BLATZ & W. L. FALES.
CONTAINING AND DISPENSING VESSEL.

APPLICATION FILED JULY 24, 1902.

NO MODEL.



Witnesses
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UNITED STATES PATENT OFFICE.

LOUIS BLATZ, OF LA MIRADA, AND WILLARD L. FALES, OF LOS ANGELES,
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CONTAINING AND DISPENSING VESSEL.

SPECIFICATION forming part of Letters Patent No. 770,215, dated September 13, 1904.

Application filed July 24, 1902. Serial No. 116,843. (No model.)

To all whom it may concern:

Be it known that we, LOUIS BLATZ, residing at La Mirada, and WILLARD L. FALES, residing at Los Angeles, in the county of Los Angeles and State of California, citizens of the United States, have invented a new and useful Containing and Dispensing Vessel, of which the following is a specification.

An object of this invention is to provide an improved collapsible vessel adapted for containing and dispensing ointments, pastes, and other semisolid materials.

An object of the invention is to provide a container and dispenser of this character having a collapsible and a non-collapsible member and which may be constructed as and will be maintained as an ornamental vessel adapted for the toilet and may be used without disfigurement until the contents have all been dispensed.

Another object of the invention is to so construct said appliance that it may be easily filled.

Our invention is embodied in a dispensing vessel comprising a member having a collapsible portion adapted to be made to approach and substantially conform to another portion of said vessel, thus expressing the contents therefrom, and provided with protection from exposure to view or injury. The package has a practically rigid top and base and a pliable non-resilient bottom member or support for the semisolid contents of the package, which bottom member is supported, covered, and protected by the more rigid parts of the package.

The vessel may be filled in any suitable manner; but we deem it desirable that one member of the vessel, preferably the member with a collapsible portion, be made to hold without undue heaping up a quantity of the substance to be dispensed sufficient to fill as nearly as may be desired the vessel when its parts shall have been assembled. Such content may be attained by the special construction of a flexible or pliable member hereinafter specifically set forth or by the use of a ring, band, or wall which may surmount one of the members during the process of filling

the same and which may or may not be removed before the completion of the vessel.

The invention may be carried out in various forms, but no attempt will be made herein to show all of the forms in which it may be embodied.

The accompanying drawings illustrate the invention.

Figure I is a mid-section of one form of the vessel embodying our invention as the same would appear when filled with the substance to be dispensed and ready for the market, together with a former or supplemental base, which in some instances is employed in putting the parts together in the process of filling and completing the vessel or package for use and which former may be constructed and employed as a base for the vessel proper and may be sold therewith as a protector for the more flexible portion of the vessel. Fig. II is a view of the vessel without the former, showing the parts as they would appear after the more flexible portion of the vessel has been filled and the less flexible portion has been placed in position ready to be fastened for completing the vessel. Fig. III is a sectional view of another form of the invention. Fig. IV is a view showing a form of the invention wherein the same is embodied in two members for forming the completed vessel, and a ring, band, or wall adapted to surmount one of them for filling the same and which may or may not be present in the finished vessel. Fig. V is a view of the parts shown in Fig. IV after the vessel has been formed and before the ring, band, or wall has been removed.

1 designates a hollow container or case, which may be composed of metal, porcelain, glass, or any other suitable material and is desirably of some ornamental form and may have a base portion 2, desirably in the form of a band or ring, which is surmounted by a dome 3, which may be of any desirable ornamental form and may be perforated at some suitable point to form an outlet 4.

5 is a stopper in the form of a cap screwed onto the case 1 to close said outlet 4.

6 is a container having a pliable or flexible

non-resilient part or member *a* contained within and capable of being pressed into the cavity of the other container 1 of the completed vessel. The pliable non-resilient part or portion of the vessel may be desirably formed of tin-foil or any other suitable material which can be readily molded or formed by the fingers and may be secured to the inside of the member 1 above the bottom thereof, so that it is not exposed to view or to contact with external objects. The tin-foil portion of this container being pliable and at the same time having the property of inertly retaining any shape to which it may be brought by manipulation, it follows that when this portion has been distorted or collapsed, so as to express the desired amount of semi-solid material, it will, acting in conjunction with the rigid member, maintain the cubic content of the vessel and prevent influx of air. This pliable portion, therefore, is collapsible and is intended to diminish the cubic content of the vessel at each manipulation, as distinguished from devices wherein a pliable portion is provided which acts intermittently to diminish the cubical content, but allows influx of air after each manipulation to restore the original cubic content. This pliable portion of the container 6 is so proportioned as to enable it to be substantially conformed to the inside of the other container, 1, to express from the vessel substantially the entire contents thereof. The pliable portion 6 is of sufficient area to be approximately conformed to the interior surface of the practically rigid portion 7 above the union therewith of the pliable non-resilient portion 6, so as to substantially express all the contents without detracting from the ornamental appearance.

The band 2 is designed to serve as a support and protector for the more pliable portion *a* of the vessel, and it may be immaterial whether the same is formed as a closed member or as open-work or as separate and independent legs, as shown in Fig. III, to support the cover or dome portion 3. While we deem it desirable to so form the base 2 that it will fully protect the flexible portion *a*, it is not absolutely necessary that it serve otherwise than a support for the dome or cover 3 and the contained material 7 and flexible member *a*.

In order to provide a large content for the finished package, the flexible member *a* is desirably of such form and size originally as to be adapted to extend below the base 2 when the mouth 8 or upper rim of the flexible member *a* is fully seated in its place inside the member 1, so that when said flexible member *a* in its original form (shown in Fig. II) is filled with the plastic or fluid mass which the vessel is to contain the cover 1 may be brought into place and a part of the material contained within the container 6 be squeezed

up into the cover or container 1 to fill the same, the parts being so proportioned that when the pliable portion *a* has been moved up so as to be within the base 2 the dome will have been filled, thus furnishing a filled vessel the bottom of which is formed of the member *a*, all contained within the case 1 and which may be emptied by pressing the member *a* toward the dome 3, thereby displacing the material contained in the vessel or forcing it out through the outlet 4.

9 is a collar contiguous with the rim of the internal pliable member *a* to complete the container 6 before it is filled.

10 is a ring or band which may be arranged to support the rim 8 of the flexible member 6. This member may have a flange 11 to extend beneath the base 2 of the container 1, and packing, luting, solder, or absorbing material not usually required may be introduced about the joint between members of the vessel, as at 12 or 13.

14 is a removable bottom piece, finishing-base, or protector which may be a part of the completed vessel or may be simply a former to be used in putting the parts together.

One or both of the containers may be formed in secondary arches *c d*, which may be of any desirable form to give a required strength or resistance with a given thickness of material to hold the form against the internal pressure which results from pressing in the pliable member *a*.

e designates folds which are a convenient form in which to provide flexible material to enable a shape of greater concavity to be assumed by the flexible member when the contents are expressed from the vessel. We do not confine ourselves to the concentric corrugations shown; but the folds may be in any suitable form, such as radial, transverse, or irregularly shaped.

It is immaterial whether the main container or cover 1 be in a measure flexible or inflexible and the other member may be sufficiently flexible or pliable to readily yield under pressure to discharge the fluid mass from the outlet 4, as desired, when the stopper is removed. The band, ring, or wall 9 may be dispensed with, as when the band 10 extends high enough to enable the member 6 to hold sufficient material. When used, it may be left in position as contemplated in the forms of the invention shown in Fig. I and in Fig. III, or it may be used as a retaining-wall while filling the member 6, but removed or displaced from its shown position when the package is completed ready for use, as will be understood from Figs. IV and V. The band or ring 10 may be applied to form a support for the more flexible container 6 while the same is being filled, and it is evident may, if desired, form an outer portion of the completed vessel, as by omitting the base 14 or by omitting a portion of the band or ring 2.

In practice the flexible container 6, fully distended, as shown in Fig. II, may be filled with the material to be dispensed and the cover or other container 1 placed thereon and the two be forced together to form a tight joint between them, the more flexible container 6 being pressed up into or against the cover which may be formed substantially by the member 1 and the band 10 where the band is used or by the member 1 alone. The removable bottom piece or former 14 may be employed to bring the member 6 into place and may have corrugations or ridges 16 to give form to the bottom of the member 6, so that said member will have folds *e* to afford the material for fitting the member 6 into the cavity of the container 1. To dispense the material, the flexible portion may be pressed in the manner usual for discharging the contents of like packages. The base 14 may be removed for this purpose or wholly omitted from the package as placed on the market.

When the vessel is sold with the bottom piece as a part of the package, such bottom piece may be removed and replaced after the manner of the cover or lid of a jar.

Now having described our invention, what we claim, and desire to secure by Letters Patent of the United States, is—

1. A containing and dispensing vessel constructed and adapted for dispensing ointments, pastes and other semisolids, and comprising two parts, one of which is pliable and non-resilient and is contained within the other and is capable of being pressed into and conformed to the cavity of the other.

2. A vessel constructed and adapted for dispensing ointments, pastes and other semisolids, comprising two members, one of which is pliable and non-resilient and is adapted to be formed to fit the inside of the other to express material from the cavity of the vessel, one of said members having a cavity, the cubical content of which corresponds approximately to the cubical content of the completed vessel, and a removable bottom piece.

3. Two members adapted to fit together to form a vessel, one of which members is flexible and is adapted to be caused to approach the other after the two have been fitted together and a ring band or wall surmounting one of said members for enabling such member to hold, while being filled, material which will occupy space in the other member after the two members are fitted together.

4. A containing and dispensing vessel provided with a flexible member with folds or corrugations, said flexible member being adapted to be caused to approach and more or less nearly conform to and follow the shape of the inner surface of another member, thus expressing the contents from the vessel.

5. In a containing and dispensing vessel comprising a flexible member and another member, one member having a secondary arch or vault and the more flexible member adapted to conform thereto so that when the vessel shall be emptied by causing the more flexible member to approach the other member, the form of said secondary arch may give strength to the flexible portion to resist the internal pressure.

6. A vessel comprising a comparatively rigid portion and a pliable, non-resilient portion, the rigid portion being provided with an outlet and the pliable non-resilient portion being of greater content than the interior of the rigid portion above the point of union therewith of the pliable portion, whereby the pliable portion may be made to hold enough material to fill the entire vessel when the vessel is completed and placed in a normal condition.

In testimony whereof we have signed our names to this specification, in the presence of two subscribing witnesses, at Los Angeles, in the county of Los Angeles and State of California, this 18th day of July, 1902.

LOUIS BLATZ.
WILLARD L. FALES.

Witnesses:

JAMES R. TOWNSEND,
JULIA TOWNSEND.