May 30, 1933. G. C. FULLMER 1,912,187

SEALED POWDER CONTAINER

Filed Oct. 21, 1932

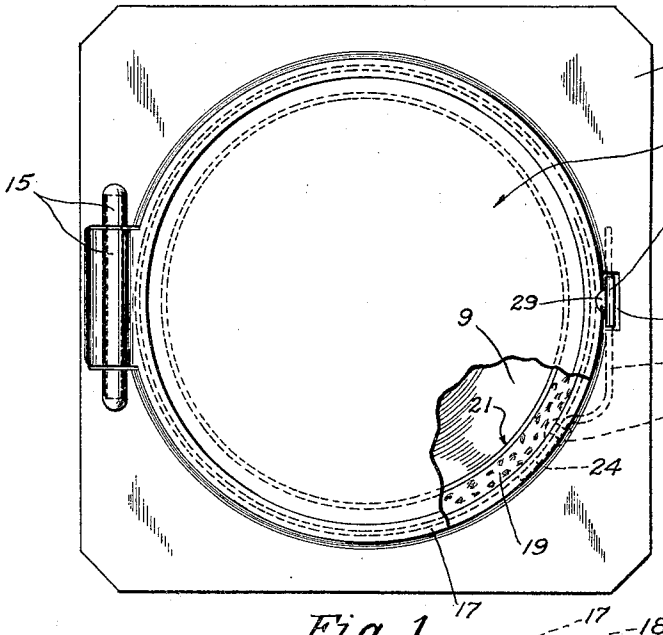


Fig. 1

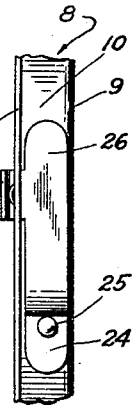


Fig. 2

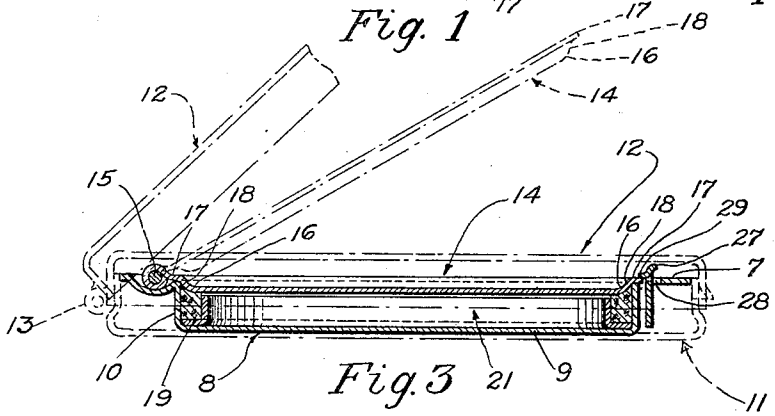


Fig. 3

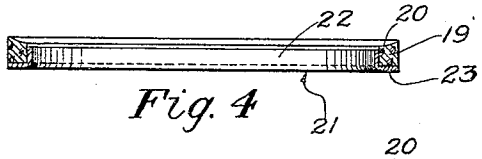


Fig. 4



Fig. 5

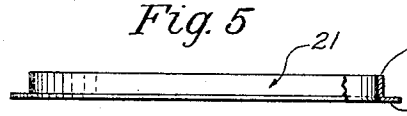


Fig. 6

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UNITED STATES PATENT OFFICE

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SEALED POWDER CONTAINER

Application filed October 21, 1932. Serial No. 638,861.

This invention relates to new and useful improvements in containers, and has particular relation to a powder container for use in vanity cases and the like.

An object of the invention is to provide a container for the purpose stated and which includes a closure or lid and means whereby the container is sealed and the spilling of powder prevented when said lid is closed.

Another object is to provide a powder container including a simple and inexpensive means for sealing the container when closed and which means does not interfere with the normal use of the container or detract from its appearance.

Other objects and advantages will become apparent from a consideration of the following detailed description taken in connection with the accompanying drawing wherein a satisfactory embodiment of the invention is shown. However, it will be understood that the invention is not limited to the details disclosed, but includes all such modifications and variations as fall within the spirit of the invention and the scope of the appended claims.

In the drawing:

Fig. 1 is a top plan view of a container constructed in accordance with the present invention, part of the closure or lid being broken away;

Fig. 2 is a detail view showing the catch means;

Fig. 3 is a sectional view through the container, an outer casing being indicated by broken lines;

Fig. 4 is a sectional view through the complete sealing ring employed;

Fig. 5 is a similar view through the compressible element of the ring; and

Fig. 6 is a view partially in side elevation and partly in section of the metal element of the sealing ring.

Referring in detail to the drawing, the improved container as here disclosed includes a plate-like portion 7 of the desired shape and carrying a hollow body 8 including a bottom 9 and a side wall 10. While the body is here disclosed as in the form of a comparatively shallow open ended cylinder, it will be appreciated that the side walls need not be circular but may form a square, rectangle, or other desired outline. Further, the body 8 may be integral with the plate 7 and may be pressed or spun to the desired shape although it will be appreciated that the body might well be formed separate from the plate and soldered or otherwise secured to it.

The plate 7 extends beyond the body 8 and is of any desired configuration and may be used for mounting the body in a suitable casing, indicated by dot and dash lines in Fig. 3, and including a body portion 11 and a top or closure 12, these parts being hinged together as at 13. This outer casing may, of course, be of the desired shape and may be of any suitable material ornamented or not to suit various tastes. When the container 8 is within an outer casing the edges of the plate 7 may engage the walls of said outer casing whereby to either removably or permanently mount the container in the case.

A suitable closure 14 for the container 8 is hinged to the plate 7 as at 15. This closure as here disclosed has its central portion inwardly depressed whereby a circular inner shoulder 16 and a circular outer edge 17 is provided. The inner shoulder 16 and the circular outer edge 17 are connected as by a curbed or inclined portion 18. The depression provides a suitable seat or holder for the usual powder puff, not shown. Means are provided for cooperation with the closure 14 and particularly with the inner circular shoulder 16 thereof whereby to provide a seal and prevent the spilling of powder from the container when the closure is in closed position.

This means includes a ring 19 of cork, felt or other compressible material, the upper edge portion 20 of which is shaped to snugly receive the shoulder portion 16 and the upwardly extending portion 18 of the closure 14 when said closure is in container closing position. To this end the ring 19 is inserted into the body 8 of the container in engagement with the inner surface of the side walls 10 thereof and to protect the compressible ring and hold it in place and give a finished appearance to the interior of the container a metal or other rigid ring 21 is employed.

Ring 21 includes a pair of angularly disposed portions 22 and 23, and when this ring is within the container its portion 23 is disposed on the bottom of the container and extends in the direction of the side walls thereof, while the portion 21 is arranged in spaced, preferably substantially parallel, relation to said side walls of the container and against the inner periphery of the compressible ring 19.

From this it will be seen that the compressible ring 19 is enclosed or protected on three of its sides and that only its upper portion is exposed. When assembling the device, the compressible ring may be mounted on the metal ring 21, as shown in Fig. 4, and this sub-assembly may then be placed in the container in the position shown in Figs. 1 and 3. Ring 19 is of slightly greater depth than the wall or portion 22 of the ring 21 and projects slightly thereabove, as clearly shown in Figs. 3 and 4, and when the closure 14 is in closed position its portion 18 and its inner circular shoulder 16 snugly engage and fit the upper surface 20 of the compressible ring whereby a seal is formed and the spilling of powder from the container is prevented.

Suitable catch means are provided for securing the closure 14 in its sealed container closing position. This means, as here shown, includes a spring arm having a portion 24 secured to the container as by a rivet 25 and having an off-set arm portion 26 carrying an upwardly extending lug 27 projecting through a slot 28 in the plate 7. The lug 27 carries an inwardly projecting portion or lip 29 adapted when the closure is closed to overlie an edge portion of the closure and secure it in closed position with its inner annular shoulder 16 in firm engagement with the compressible ring 19. The closure may, of course, be released by pressing outwardly on the upper portion of lug 27, and the closure is secured in closed position simply by pressing it downwardly beyond the lip 29, which owing to the fact that its upper surface is inclined, will be forced outwardly by engagement with the closure as the closure is pressed downwardly.

From the foregoing description, it will be seen that I have provided a relatively simple and inexpensive means for sealing a powder container whereby to prevent spilling of its contents. The ring of compressible material is supported on three sides by a metal or other rigid ring member and is thus held in place and prevented from spreading, and is further substantially concealed whereby it does not detract from the appearance of the device. Also, it will be noted that the capacity of the container is not materially reduced and that there is very little change in its appearance. In fact the compressible ring 19 and the ring 21 when in place in the container are hardly noticeable. The spring catch serves effectively to maintain the closure in closed position with its inner annular shoulder 16 forcefully engaging the compressible ring and a very effective seal is thus provided.

Having thus set forth the nature of my invention, what I claim is:

1. In a cosmetic container, a hollow body including side walls, a ring of compressible material within said body and against the side walls thereof, a closure hinged to said body, a catch means for securing said closure in closed position, and means on said closure and engaging said compressible ring while said closure is in closed position whereby a seal is formed.

2. In a cosmetic container, a hollow body including a bottom and side walls, a rigid ring within said body and including angularly related portions of which one is disposed in spaced relation to said side walls and the other on said bottom and extending in the direction of said side walls, a ring of compressible material filling the space between said side walls and the rigid ring portion spaced therefrom, a closure hinged to said body, a catch means for securing said closure in closed position, and means on said closure and engaging said compressible ring while said closure is in closed position whereby a seal is formed.

3. In a cosmetic container, a hollow body including side walls, a ring of compressible material within said body against the side walls thereof, a rigid ring engaging the inner periphery of said ring of compressible material, a closure hinged to said body, a catch means for securing said closure in closed position, and means on said closure engaging said compressible ring while said closure is in closed position whereby a seal is formed.

4. In a cosmetic container, a hollow body including side walls, a ring of compressible material within said body and against the side walls thereof, a closure hinged to said body, a catch means for securing said closure in closed position, and a shoulder on the inner side of said closure and engaging said compressible ring while said closure is in closed position whereby a seal is formed.

5. In a cosmetic container, a hollow body including side walls, a ring of compressible material within said body against the side walls thereof, a rigid ring engaging the inner periphery of said ring of compressible material, said ring of compressible material extending above said rigid ring, a closure hinged to said body, a catch means for securing said closure in closed position, and means on said closure engaging said compressible ring while said closure is in closed position whereby a seal is formed.

6. In a cosmetic container, a hollow body including a bottom and side walls, a ring in said body having angularly arranged walls

one of which is disposed in spaced relation to said side walls and the other extending in the general direction of the side walls, a ring of compressible material closing the space between said ring and the side walls, and a closure engaging said second ring to form therewith a seal.

7. In a cosmetic container, a hollow body including side walls, a ring in said body having angularly arranged walls one of which is in spaced relation to and extends in the general direction of the side walls, a ring of compressible material closing the space between said ring and the side walls and having a transversely curved top surface, and a closure having an offset central portion with an edge curved to fit said curved surface.

8. In a cosmetic container, a hollow body including side walls, a ring of compressible material within said body against the side walls thereof, a ring of rigid material engaging the inner periphery of said ring of compressible material, a closure, and means on said closure engaging said compressible ring while said closure is in closed position whereby a seal is formed.

In testimony whereof I affix my signature.

GILES C. FULLMER.