

C. B. LEWIS.
 STOPPER, BUNG, OR THE LIKE.
 APPLICATION FILED JUNE 4, 1912.

1,051,242.

Patented Jan. 21, 1913.

Fig. 1.

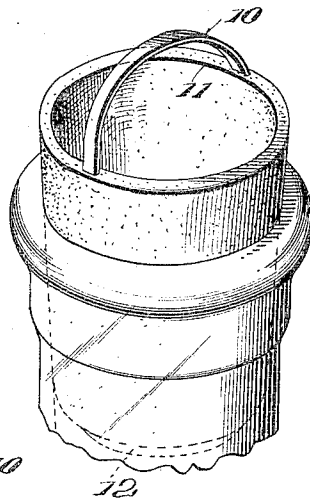


Fig. 2.

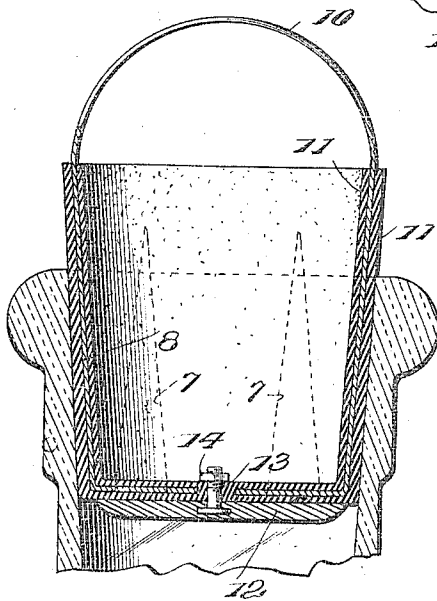


Fig. 3.

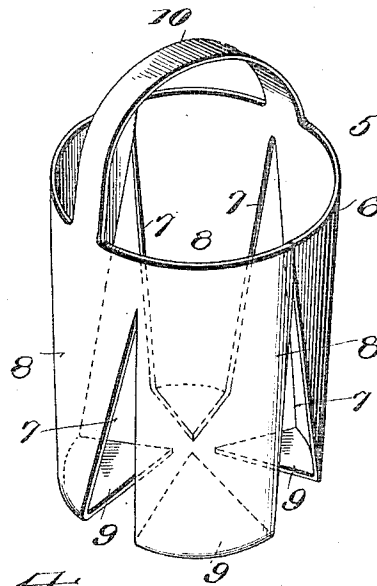
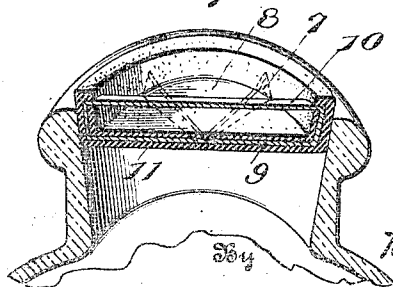


Fig. 4.



Witnesses

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UNITED STATES PATENT OFFICE.

CHARLES B. LEWIS, OF EMIGSVILLE, PENNSYLVANIA.

STOPPER, BUNG, OR THE LIKE.

1,051,242.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, CHARLES B. LEWIS, a citizen of the United States, residing at Emigsville, in the county of York and State of Pennsylvania, have invented certain new and useful Improvements in Stoppers, Bungs, or the Like, of which the following is a specification.

My invention relates to certain new and useful improvements in stoppers, bungs, or the like, and the object of my invention is to produce a stopper, bung, or the like, which is elastic, and one which will consequently tightly fit in the neck of the bottle whether the interior of the neck is tapered, or straight, and in the case of a bung one which will tightly fit the opening, and which will adjust itself to slight variations in the size of the bottle neck, or other openings into which it may be desired to insert the stopper or bung.

A further object of my invention is to produce a stopper, bung, or the like, which shall be simple and cheap in construction and durable, so that it may be used a great many times without deterioration, and one which will produce a hermetic seal.

With these and other objects in view my invention consists in certain constructions, combinations and arrangements of parts the preferred form of which will be first described in connection with the accompanying drawings, and then the invention particularly pointed out in the appended claims.

Referring to the drawings wherein the same part is designated by the same reference numeral wherever it occurs, Figure 1 is a perspective view of a bottle neck with the preferred form of my stopper inserted therein; Fig. 2 is a central, vertical section of Fig. 1; Fig. 3 is a perspective view of my metallic spring frame for the stopper, and Fig. 4 is a central longitudinal section showing my invention in connection with a stopper for a wide mouthed bottle, and showing a slight modification.

5 designates a metallic spring frame, preferably formed from steel, or other resilient metal. This spring comprises a body portion 6 of cylindrical form cut away at its lower portion to form the triangular shape cuts 7, the lower ends of the legs 8 thus formed being inturned as shown at 9. The inturned portions 9 are spaced apart, as best seen in Fig. 3, so that the lower portion of the frame can be contracted. Preferably

and as shown a bail 10 connects the opposite upper edges of the body portion 6. This bail can be curved as shown in Figs. 1 to 3 inclusive, or straight as shown in Fig. 4.

Molded or otherwise formed around the frame is the impervious elastic or plastic covering 11. This covering may be formed of rubber or any other desired material or compound.

From the foregoing it will be seen that the construction of the skeleton spring frame covered interiorly and exteriorly with the elastic composition will provide a construction which when inserted into a bottle neck, or other opening, will compress and consequently tightly and closely fit the opening into which it is inserted and hermetically seal the container. The construction shown in Fig. 4 is identical with that just described except that, as before stated, the bail 10 extends straight across instead of being curved, and the stopper is very much larger in diameter than it is thick, so that it is in the form usually used for a bung, or a wide mouthed bottle or jar. When desired, in order to protect the bottom of the stopper I would provide a button 12, formed of porcelain, or similar substance, which button has molded therein and extending from one side thereof a securing pin or screw 13 adapted to pass through the center of the lower end of the stopper and be suitably secured in place as by a nut 14.

The foregoing description, of my improvements as I prefer to construct them, has been given for clearness of understanding only, my intention being that no undue limitation should be understood, and that the appended claims shall be construed as broadly as the prior state of the art may permit.

Having thus described my invention what I claim as new and desire to secure by Letters Patent is:

1. In a stopper the combination with a frame comprising a cylindrical body portion and resilient legs depending therefrom, of an impervious elastic covering extending over the interior and exterior of the frame.

2. In a stopper the combination with a frame comprising a cylindrical body portion having depending separated resilient legs, the lower ends of the legs being inturned, of an impervious elastic covering extending over the interior and exterior of the frame.

3. In a stopper the combination with a

frame comprising a cylindrical body portion
and resilient legs depending therefrom, of a
bail extending across the top of the body
portion, and an impervious elastic covering
5 extending over the interior and exterior of
the frame.

4. In a stopper the combination with a
frame comprising a cylindrical body por-
tion having spaced apart resilient legs de-
10 pending therefrom with the ends of the legs

inturned, of an impervious elastic covering
extending over the interior and exterior of
the frame, and a protecting button secured
to the bottom of the stopper.

In testimony whereof I affix my signature 15
in presence of two witnesses.

CHARLES B. LEWIS.

Witnesses:

L. E. HERR,
E. K. EMIG.