(No Model.)

S. WALES.

SAFETY PACKAGE.

No. 427,643. Patented May 13, 1890.

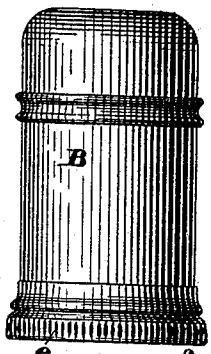

Fig. 1.

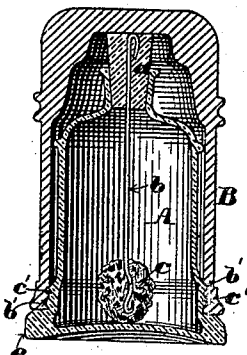

Fig. 2.

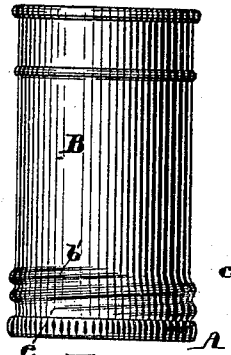

Fig. 3.

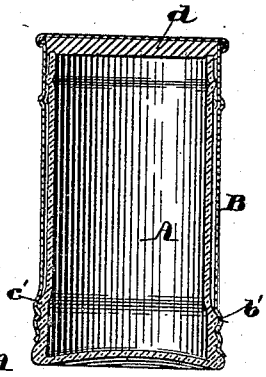

Fig. 4.

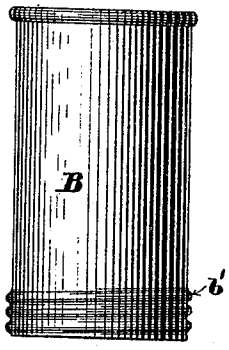

Fig. 5.

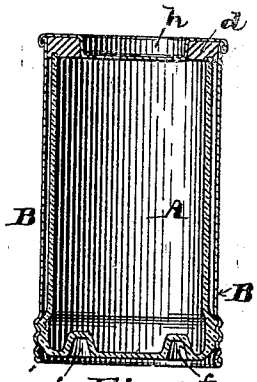

Fig. 6.

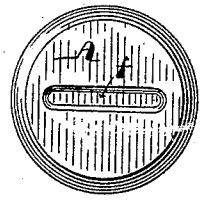

Fig. 9.

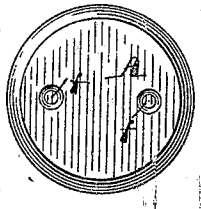

Fig. 7.

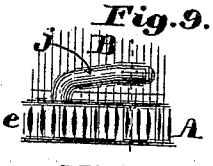

Fig. 10.

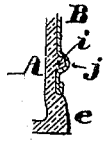

Fig. 11.

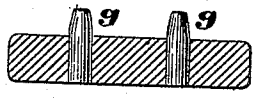

Fig. 8.

Witnesses:
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H. A. Kendall.

Inventor:
Sigourney Wales,
by N. C. Lombard
Attorney.

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

SIGOURNEY WALES, OF TERRE HAUTE, INDIANA, ASSIGNOR TO WHITTEMORE BROTHERS & CO., OF BOSTON, MASSACHUSETTS.

SAFETY-PACKAGE.

SPECIFICATION forming part of Letters Patent No. 427,643, dated May 13, 1890.

Application filed February 18, 1890. Serial No. 340,945. (No model.)

To all whom it may concern:

Be it known that I, SIGOURNEY WALES, of Terre Haute, in the county of Vigo and State of Indiana, have invented certain new and useful Improvements in Safety-Packages, of which the following, taken in connection with the accompanying drawings, is a specification.

My invention relates to safety-packages for protecting hollow receptacles; and it consists in certain novel features of construction, arrangement, and combination of parts, which will be readily understood by reference to the description of the drawings and to the claims hereinafter given and in which my invention is clearly pointed out.

Many articles, for toilet and other purposes, of a liquid or semi-liquid nature, and which it is very desirable should constitute a portion of one's luggage when traveling, are put up in glass bottles or jars, which are liable to become broken by the rough handling which the luggage receives; or the contents are liable to escape by the stopple becoming displaced, to the very great injury of the other contents of the luggage. To obviate these difficulties, and render it practically safe to carry quite frail receptacles filled with liquid or other contents without danger of the receptacles being broken or the contents escaping, is the object of my invention.

Figure 1 of the drawings is an elevation, and Fig. 2 a central vertical section, of a shoe-polish bottle with my invention applied thereto. Figs. 3 and 4 are respectively an elevation and a central vertical section illustrating the application of my invention to an open-mouthed vessel, as a drinking-cup. Figs. 5 and 6 are similar views of an open-mouthed vessel or cup and its closing and protecting casing, illustrating a slightly-modified form of my invention. Fig. 7 is an inverted plan of the cup or vessel shown in Fig. 6. Fig. 8 is a sectional elevation of a wrench for unscrewing the cup shown in Fig. 6 from its casing. Fig. 9 represents a slightly-modified form of socket in the bottom of the cup to receive the wrench shown in Fig. 8. Figs. 10 and 11 are respectively a partial elevation and a partial vertical section illustrating a modified form of the screw-connection of the casing to the vessel or receptacle.

In Figs. 1 and 2 A is the bottle to be filled with shoe-polish in a liquid form, the neck or mouth of said bottle being closed by the cork *a*, which has secured thereto and depending therefrom the wire *b*, to the lower end of which is secured the sponge *c* in a well-known manner. To prevent the loosening of the stopple *a* and also to protect the bottle in a great measure from breakage, I form a casing B, of wood, metal, or other suitable material, having a closed top and open at its lower end and having formed in its inner surface at its lower end a female screw-thread *b'* to engage with a corresponding male screw-thread *c'*, formed upon the exterior of the bottle at or near its lower end, said casing being so formed and proportioned that when it is screwed upon the bottle the inner surface of its closed upper end rests upon the top of the cork or stopple *a*, and thus prevents said stopple working out or becoming loosened, all as shown in Fig. 2.

In Figs. 3, 4, 5, and 6 the receptacle A is a wide-mouthed jar, provided near its base with the male screw-thread *c'*, to which is screwed the casing B, having the female screw-thread *b'* formed therein and provided at its upper end with a disk of cork or other suitable material *d*, secured within the upper end of the casing, so as to bear upon the upper edge of the receptacle *a* and close its mouth when said casing is screwed down upon said receptacle, as shown in Fig. 4.

In Figs. 1, 2, 3, and 4 the protecting-casing does not extend to the bottom of the receptacle, but leaves the lower bead *e*, which is thick and solid and is milled or serrated, exposed to afford a hold upon the receptacle when unscrewing or screwing on the protecting-casing.

In Figs. 5 and 6 the casing extends below the bottom of the receptacle, and said receptacle has formed in its bottom one or two recesses *f*, as shown in Figs. 7 and 9, to receive the pins *g g* of the wrench C (shown in Fig. 8) when it is desired to screw on or off the protecting-casing B.

The cap of the casing B (shown in Fig. 6)

has formed therein a central depression *h*, between which and the vertical walls of the casing is fitted a ring of cork or other suitable packing material, which rests upon the upper edge of the receptacle A, as shown in Fig. 6.

Instead of extending the female screw-thread entirely around the casing, as shown in Figs. 1, 3, and 5, and forming a male thread entirely around the receptacle, a fairly-good result may be obtained by forming upon the exterior of the receptacle near its lower end two outwardly-projecting lugs or bosses *i*, arranged on opposite sides thereof and forming in inner surface of the casing two cam-like grooves *j* or short sections of screw-threads, which engage with said lugs or bosses, and by turning said casing a portion of a revolution said casing is drawn downward upon the receptacle to close its mouth in substantially the same manner as when the screw-thread extending all around the receptacle is used, except that a shorter rotation is required.

The casing shown in Figs. 1 and 2 is shown as made from a single piece of wood, while the casings shown in the other views are made of metal.

What I claim as new, and desire to secure by Letters Patent of the United States, is—

1. A safety-package for containing liquid or semi-liquid substances, comprising a hollow vessel or receptacle made of glass or other easily-fractured material, having formed upon its exterior at or near its lower end projecting lugs or threads, and an outer casing of sufficient length to substantially inclose said inner receptacle and made of a less fragile material, as wood or metal, and having its lower end open and provided with a female inclined groove or thread to engage said thread or lug on the inner receptacle and its upper end closed and arranged to bear upon and press the receptacle-closing stopple or cap to its seat.

2. In combination with a receptacle provided with a male thread or lug at or near its base end and a recess or recesses in its bottom, an inclosing and protecting casing closed at one end and open at the other, and provided near said open end with a female screw-thread or inclined groove to engage said male thread or lug on the receptacle, and constructed and arranged to extend below the bottom of the receptacle and press at its closed end upon the receptacle-closing stopple or packing, substantially as described.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, on this 14th day of February, A. D. 1890.

SIGOURNEY WALES.

Witnesses:
FELIX R. SULLIVAN,
L. RABILLON.