T. W. FITZGERALD.

CONTAINER COVER.

APPLICATION FILED JAN. 2, 1918.

1,301,676.

Patented Apr. 22, 1919.

Fig. 1.

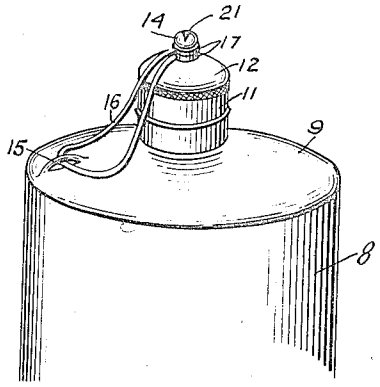


Fig. 2.

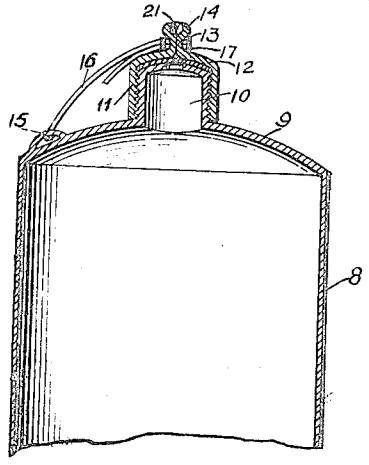


Fig. 3.

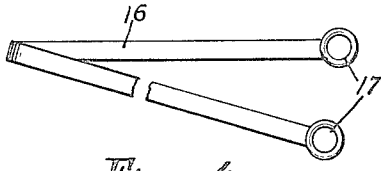


Fig. 4.

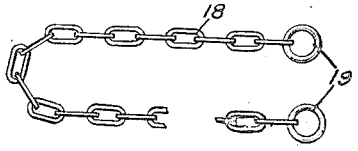
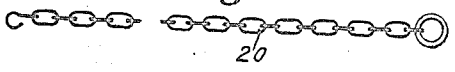


Fig. 5.



Witnesses

C. Stafford

James E. Boehm

Inventor

Thomas W. Fitzgerald

By. Victor J. Evans

Attorney

UNITED STATES PATENT OFFICE.

THOMAS W. FITZGERALD, OF NEW YORK, N. Y.

CONTAINER-COVER.

1,301,676. Specification of Letters Patent. Patented Apr. 22, 1919.

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To all whom it may concern:

Be it known that I, THOMAS W. FITZGERALD, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented new and useful Improvements in Container-Covers, of which the following is a specification.

This invention relates to loss preventing devices and particularly to that class of devices which are used for the purpose of preventing the loss of closures of vessels or containers.

The invention is primarily designed for use in connection with tubular tooth paste containers, in which threaded caps are customarily employed for the purpose of sealing the discharge end of said container. In this class of closure, and container, the two parts frequently become separated or one lost from the other and as a consequence thereof, the contents of the container is subjected to atmospheric action which causes it to harden at the discharge end of the container and prevent a uniform or proper discharge of the contents when desired for use. This also results in loss by evaporation of the medicinal constitutents contained in tooth paste or dentifrices and the loss of the sealing cap therefore effects an injury to the contents other than the mere hardening of the same at the discharge end of said container. Incident to the size of the containers of the described character, the closures thereof, are frequently so small that should they be dropped upon the floor when removed, it is almost impossible to locate them. Furthermore, such closures are frequently dropped down the drain pipe when handling the container over a toilet bowl or are otherwise very easily permanently lost from the container.

It is with these objects in view that I have designed a simple and extremely practical loss preventing device which is applicable to containers regardless of their size, and which will operate to permit the closure cap to be freely separated from the discharge end of the container when desired and at the same time, held associated with the container so as to positively prevent loss thereof, while the former is in use.

One of the principal features of the invention resides in the provision of a flexible connection between the crown of the closure cap and breast of the container body, relating the points of connection therefor with such regard to each other as to prevent said flexible connection from interfering with manipulations by the hand of the closure cap and also prevent said flexible connection from twisting around the cap when adjusting the latter.

Another object of the invention resides in the construction of a device of this character which will include a flexible connection and means for expeditiously effecting an application thereof to the container and cap.

A still further object of the invention is to provide a loss preventing device in which its essential instrumentalities may be struck up as integral parts of the receptacle and cap respectively.

In the drawings:—

Figure 1, is a perspective view of the device showing the application thereof to a flexible tube and threaded cap.

Fig. 2 is a vertical section therethrough.

Fig. 3, is a plan view of the flexible connection.

Fig. 4 is a plan view of a slightly modified form of flexible connection.

Fig. 5, is a similar view of a still further modified form of flexible connection.

The flexible tube 8, herein illustrated, can be of any suitable well known design except for the slight modifications in the construction thereof, which will be presently described. Said tube is provided with a breast 9, the thickness of the walls of which being preferably greater to a considerable extent than the thickness of the walls of the tube proper, in order that the shape of the tube can be uniformly maintained and rigidity given to the discharge end of the tube. At the center, the tube is provided with an exteriorly threaded neck 10, on which is adjustably mounted, a correspondingly threaded closure cap 11.

This cap is provided with a crown 12, having a vertical shank 13, upstruck therefrom preferably at the center, and formed at its upper end to provide a head 14, the latter being spaced from the crown for a purpose to be hereinafter referred to. On the breast 19, and also preferably upstruck therefrom, is an eye member 15. A flexible connection 16, is extended between the eye member 15, and shank 13, on the crown of the closure cap. This connection, in this instance, is in the form of a relatively narrow piece of ribbon or tape, the ends of which

being provided with eyelets 17. This tape is adapted to be passed through the eye-member 15, and then folded on itself from the center in order that the eyelets 17, can be brought into alinement with each other and the two then passed over the head 14, where they will be interposed between the latter and the crown 12, of said closure cap. The length of the tape or flexible connection is proportioned with respect to the distance between the shank 13, and eye member 15, so that when the cap is applied, the connection is sufficiently slacked to permit the cap to be rotated on the neck 10, without the tape winding around the cap or in any way interfering with manual manipulations thereof when removing the cap from or applying the same to the receptacle. When the cap is removed from the neck, the connection 16, supports the same at one side of the receptacle where it can always be conveniently found when it is desired to again seal the discharge neck 10, and render the same properly airtight.

In lieu of the tape or ribbon connection 16, a relatively small chain 18, may be substituted and folded upon itself and the free ends of the chain provided with eyelets 19—19.

A further modification of flexible connection is suggested in Fig. 5, and the same comprises a single length of chain 20, in which one end is adapted to be connected to the eyelet 15, and the other end to the shank 13, of the closure cap. The head 14, in the preferred embodiment of the invention may be slit on lateral lines 21, in order that it is rendered slightly resilient. This will permit the eyelets 17, of the tape 16, to freely pass on to the shank. The arrangement will also accommodate in a similar manner, the receiving terminal of either of the connections shown in Figs. 4 and 5, of the drawings.

The manner of attaching the flexible connection to the headed shank 13, establishes a swivel-like arrangement between the parts in order that the cap can be properly rotated without interference of the tape.

What is claimed as new is:—

The combination with a container having a threaded neck portion, of a cap threaded thereon and including a head and a reduced neck portion, a flexible device secured to the container, a ring on said device and loosely encircling the neck, the neck being of resilient material and being split vertically, providing elements retaining the ring and securing device from displacement.

In testimony whereof I affix my signature.

THOMAS W. FITZGERALD.