A. INGRAM.

BOTTLE AND JAR SEALING DEVICE.

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WITNESSES:

J. C. Stewart

I. D. Engelhardt

ALFRED INGRAM INVENTOR

BY

Robert Magrane ATTORNEY
To all whom it may concern:

Be it known that I, ALFRED INGRAM, a citizen of the United States, residing at New York, in the county of Kings and State of New York, have invented a new and useful Improvement in Bottle and Jar Sealing Devices, of which the following is a specification.

This invention relates to bottle and jar sealing devices, and has for its object the provision of an improved closure device by means of which the contents of the package may be kept indefinitely under a sealed closure, and after the seal is broken, a second closure protects the contents while the package is in use.

Referring to the drawings: Figure 1 represents a sectional elevation of a bottle neck, showing a stopper in position for use, and Fig. 2 is a similar view showing the stopper reversed and the bottle sealed by a cap superposed over the inverted stopper.

The bottle neck 1 is provided with a shoulder 2 upon which the collar 3 of the stopper is supported. In Fig. 2 the stopper is inverted so that the thumbpiece 4 is within the bottle and the upper part of the collar 3 is substantially flush with the upper extremity of the neck 1. This part of the collar is provided with a web 5 by means of which the stopper may be lifted from the neck.

Superposed over the stopper is a sealing closure 6 provided with a compressible rubber or elastic gasket 7 adapted to form a seal on the side of the neck 1. No claim is here made as to this particular sealing closure, it forming the subject-matter of a co-pending application.

The bottle as shown in Fig. 2 is permanently sealed so that its contents may be kept indefinitely. When it is desired to use the contents, the closure 6 is removed and thrown away. The stopper may then be lifted out by the web 5, and the bottle is ready for use. In replacing the stopper, it is inverted to the position shown in Fig. 1, the thumbpiece 4 being uppermost and permitting the stopper to be readily removed and replaced as desired.

The stopper is preferably made of glass or other vitreous material, but the invention is not to be limited to any particular substance, or to the particular form of stopper shown.

It is obvious also that the invention may be applied to jars as well as bottles, and the invention is not limited to the particular form or character of the retainer shown.

In the modern tendency to pack food products with machinery which operates with considerable rapidity it is desirable to provide the elements forming the closure of such character as to facilitate supplying packages ready to be sealed with the necessary speed and rapidity. The glass stopper is admirably adapted for this work in that the thumb piece 4 constitutes a guiding member to automatically position the stopper in inverted relation when the package is being prepared for sealing. Furthermore the length of the body portion 3 extending substantially from the supporting member or shelf 2 to the end of the bottle neck enables the sealing cap 6 to retain the glass stopper in position for shipment without permitting undue movement of the stopper loosely held therein. The glass stopper may be said to be a permanent stopper that is a member adapted to be used after the seal is broken whereas the closure 6 may be termed a destructible seal which is not used ordinarily after the seal is broken.

Other modifications may be made without departing from the spirit of the invention, as by proportioning the collar 3 of the stopper differently from the form shown. The invention is not restricted therefore to the particular form shown, but includes all devices having a reversible stopper which is held in its place by a second and independent sealing closure.

What is claimed:

1. In a bottle closure, a bottle provided with a neck having an interior supporting member spaced from the end of the neck, in combination with a reversible stopper of heavy material whereby the weight tends to hold the stopper in place in either upright or inverted position, said stopper having a relatively long body portion adapted to fit loosely within the end of the neck and to rest upon said supporting member, and an extension of less diameter than said body portion to constitute a guide when said stopper is inserted in the neck in inverted position and to constitute a finger piece when said stopper is inserted in the neck in upright position, said relatively long body portion of the stopper ending substantially
within the neck when the stopper is inserted in inverted position.

2. In a closure for catchup bottles and the like, a bottle provided with a neck formed with a supporting member on the interior thereof spaced from the end of the neck, and said neck having a substantially cylindrical exterior portion adjacent the end thereof, in combination with a reversible permanent stopper having a relatively long body portion adapted to fit loosely within the neck and resting on said supporting member, an extension on the body portion of less diameter than the body portion and adapted to constitute a guide member to facilitate introduction of the stopper in inverted position into the bottle neck and to form a finger piece when said stopper is inserted in the neck with the extension above the body portion, said stopper extending substantially to the end of the neck when the stopper is in inverted position, and an exterior destructible sealing member covering the end of the bottle neck and locking the stopper in position therein whereby the bottle is securely sealed for packing and transportation.

ALFRED INGRAM.

Witnesses:
ROBERT MAGRANE,
I. R. STEWART.