

July 20, 1943.

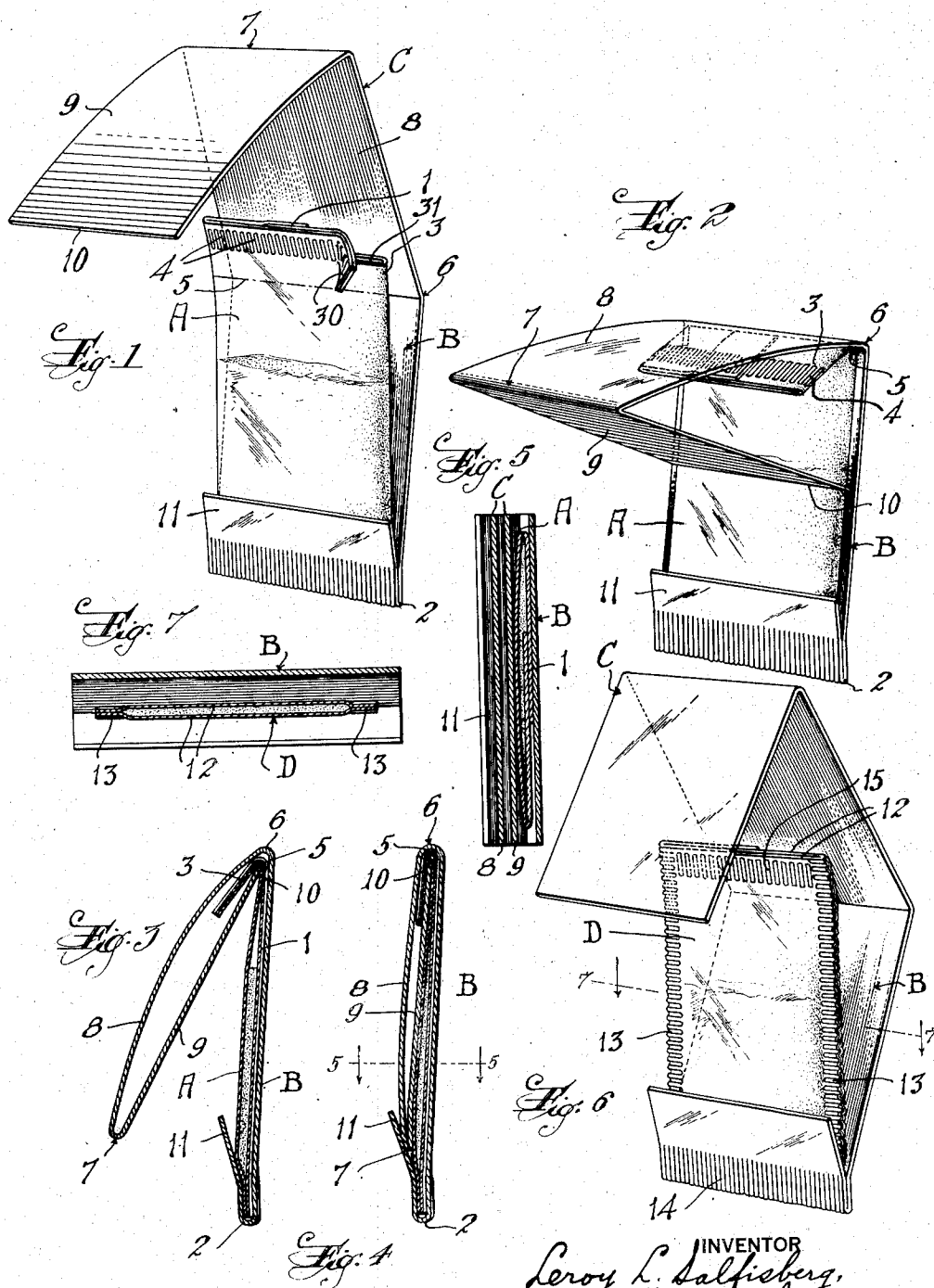
L. L. SALFISBERG

2,324,541

FOLD-CLOSED PACKAGE

Filed Sept. 26, 1940

2 Sheets-Sheet 1



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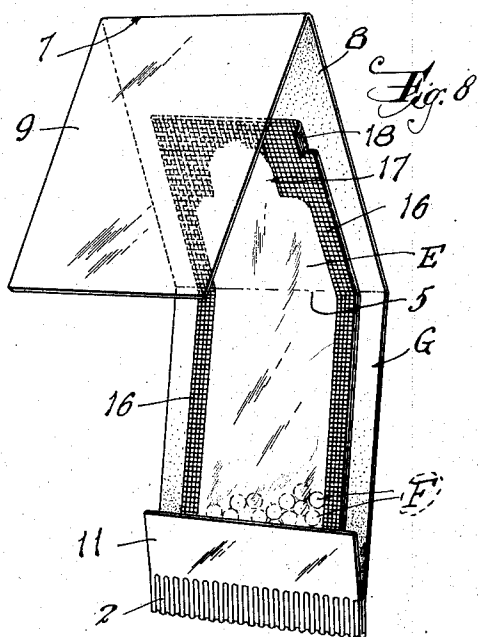
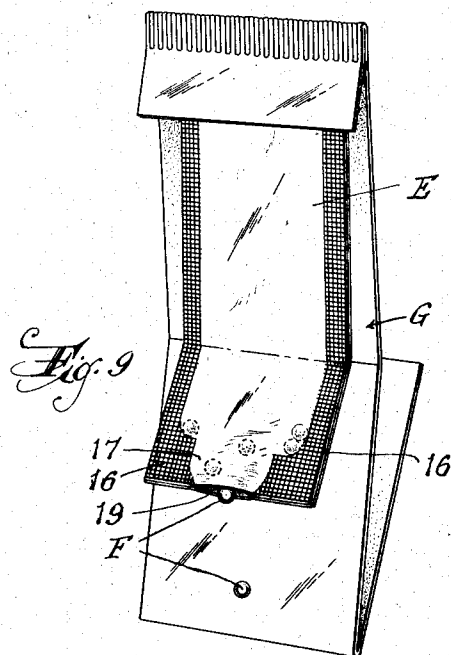
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Filed Sept. 26, 1940

2 Sheets-Sheet 2



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2,324,541

FOLD-CLOSED PACKAGE

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Application September 26, 1940, Serial No. 358,377

16 Claims. (Cl. 206—46)

This invention relates in general to packages for small articles such as tablets, pills or buttons, or powdered or granulated material, or liquid or paste, one object of the invention being to provide a package that shall include a novel and improved construction and combination of a bag or envelope for the articles or material having an initially sealed and tamper-proof foldable closure, and a foldable cover for enclosing the envelope or bag and constructed to cooperate with said foldable closure after the closure has once been unsealed or opened so as to hold the closure in closed position when the cover is folded to enclose the bag or envelope and to release said foldable closure when the cover is unfolded for access to the bag or envelope, whereby the bag can be repeatedly opened and closed easily and quickly, and shall be held firmly closed.

Another object is to provide a package that shall include a novel and improved construction and combination of a bag or envelope formed of flexible material, and a foldable cover formed of relatively stiffer material for enclosing and protecting said bag or envelope, with one end of said bag or envelope permanently connected adjacent one end of said cover and the bag or envelope provided with a fold intermediate its length with which the other end of the foldable cover shall cooperate to hold the bag or envelope flat in proper position and against crumpling in the cover.

Other objects, advantages and results of the invention will appear from the following description in conjunction with the accompanying drawings in which

Figure 1 is a perspective view of a package constructed in accordance with my invention and showing the cover opened.

Figure 2 is a similar view showing the initial position of the parts of the package during closing of the package.

Figure 3 is a central vertical longitudinal sectional view through the package showing the parts in a subsequent position during closing of the package.

Figure 4 is a view similar to Figure 3 showing the package closed.

Figure 5 is a horizontal sectional view on the line 5—5 of Figure 4.

Figure 6 is a view similar to Figure 1 showing a modified form of the package.

Figure 7 is a horizontal sectional view on the line 7—7 of Figure 6.

Figure 8 is a view similar to Figure 1 illustrating

a modification of the invention and showing the bag sealed, and

Figure 9 is a similar view showing the bag opened and inverted for removing the contents from the bag.

Specifically describing the form of the invention shown in Figures 1 to 5 inclusive, the package comprises a bag, envelope or like container A formed of suitable material, preferably thin and flexible sheet or strip material such as paper, "Cellophane," "Pliofilm," metallic foil, cloth or the like, especially sheet material which itself is thermoplastic and can be softened by heat or has a thermoplastic or fusible coating, so that the juxtaposed layers of material can be fused or caused to adhere together by application of heat and pressure, or with glue, to form a seal. As shown, the bag comprises a single strip of material folded longitudinally with its edge portions secured together as at 1.

The bag A is associated with a cover B which is foldable around the bag to enclose and protect the bag and also to receive printed matter such as advertising material. Preferably the cover is formed of a single strip of material relatively stiffer than material of which the bag A is formed, and is folded at 2 around one end of the bag and secured to the bag as by adhesive or by heat and crimping where the material of which the bag is formed is thermoplastic.

The other end of the bag A has a neck portion 3 and is initially sealed or closed in any suitable manner as by crimping 4, so that the bag is tamper-proof. The bag may be opened by tearing the material across the neck as at 30 to form an opening 31, and after the bag has once been opened, it is closable by transversely folding the bag as at 5 inwardly of the opening 31.

The body portion of the cover strip lies along or is juxtaposed to one side of the bag A, and the cover strip has a second fold 6 to receive the fold 5 of the bag and to form a cover flap C that is hingedly connected at 6 to the body portion of the cover strip. The flap C is folded at 7 to form two hingedly connected sections 8 and 9, the latter of which is adapted to be arranged in side-by-side relation to and beneath the section 8 as the cover is folded about the package. The section 8 is of a size to cover the side of the package opposite the body portion of the cover strip, and the section 9 is of such size that its free end edge 10 may separably enter the fold 5 of the bag so as to stretch and hold flat the bag between said fold and the point

of connection 2 of the bag with the cover and at the same time hold the transverse fold 5 of the bag between said end edge and the fold 6 of the cover when the cover is folded around the bag to enclose it, as most clearly shown in Figure 4 of the drawings.

Suitable means may be provided for holding the closure flap C in this cover-closing position, but as shown the marginal end portion 11 of the cover strip beyond the fold 2 is in spaced relation to the side of the bag A so as to releasably receive the fold 7 of the closure flap when the cover is folded around the package, to hold the closure flap against unfolding, as shown in Figure 4.

With this construction it will be observed that the fold 2 of the cover strip closes and reinforces one end of the bag A, the cover protects the relatively thin and weak material of the bag, the cover flap firmly holds the closure fold 5 of the bag against unfolding, and the section 9 of the closure flap also serves in the nature of a spring follower and stretches and holds the bag in proper position and against crumpling or displacement in the cover. After the bag has been opened initially by removal of the tearing flap 30, the bag can be closed and opened repeatedly by simple folding and unfolding of the cover flap C and the fold 5 of the bag.

A modification of the invention is shown in Figures 6 and 7 where the bag or envelope D is formed of two separate sheets 12 of material that are crimp sealed together along the longitudinal margins, as at 13, and one end, as at 14. The other end of the bag is initially closed as by a crimped seal 15 which provides a tearing flap like the flap 30. The cover of this form of the package is of the same structure and cooperates with the bag D in the same manner as in the form shown in Figures 1 to 5 inclusive.

Figures 8 and 9 illustrate another modification of the bag wherein the bag E is formed of two superposed layers of packaging material, such as "Pliofilm," that are crimp sealed or bonded together along their marginal portions as at 16 to form a receptacle to hold small articles such as pellets F, or liquid, paste, powdered material, etc. The sealed or bonded portions 16 of the layers of material are so shaped as to provide a discharge or pouring neck 17 for the bag and to provide a tearing flap 18 which can be torn across the neck to form a discharge or pouring orifice 19. The bag E is enclosed in a cover G that may be substantially identical in construction with the cover B.

The bag is initially sealed to enclose the contents and make the package tamper-proof, and when it is desired to open the bag, the flap 18 is torn off, after which the bag may be inverted as shown in Figure 9 for removal of the contents. The discharge neck 17 provides a restricted discharge for the contents of the bag so as to restrict the flow of the contents of the bag through the orifice 19. After the bag has once been opened, it can be again closed and then repeatedly opened and closed by folding of the bag in the cover as described in connection with the form of the invention shown in Figures 1 to 5 inclusive.

Other modifications in the structure and combination of the bag and cover will occur to those skilled in the art as within the spirit or scope of the invention.

Having thus described my invention, what I claim is:

1. A package comprising a bag openable at one end and closable by a transverse fold in the bag, a cover consisting of a strip of material secured to the bag at the side of said fold opposite said open end and foldable transversely of itself to extend around the bag lengthwise of the latter, said cover having a closure flap foldable over said transverse fold of the bag and provided with a portion to separably enter said transverse fold and hold the fold between said portion of the flap and one fold of said cover as the cover is folded around the bag, and means for releasably holding said closure flap with said portion thereof in said transverse fold of the bag as described.

2. A package comprising a bag having a neck at one end formed with an opening closable by a fold transversely of the neck, a cover secured to the other end of the bag and foldable around the bag, said cover having a closure flap to separately enter said fold in the neck of the bag and hold said fold against unfolding as the cover is folded around the bag, and means for releasably holding said flap in cover-closing position.

3. A package comprising a bag having an opening at one end closable by a transverse fold in the bag inwardly of said opening, a cover consisting of a strip of material folded around and secured to the other end of the bag with a transverse marginal portion in spaced juxtaposed relation to said bag, the cover strip being foldable around the first-mentioned end of the bag and having a closure flap provided with a portion to separably enter said fold of the bag as the cover is folded around the first-mentioned end of the bag, said closure flap being insertible between said transverse marginal portion of the cover and said bag to hold the flap in cover-closing position.

4. A package comprising a bag having an opening at one end closable by a transverse fold in the bag inwardly of said opening, a cover consisting of a body portion at one side of said bag folded at one end around and secured to the other end of the bag with a transverse marginal portion in spaced juxtaposed relation to said bag, the other end of said body portion having a flap hingedly connected thereto to extend around the first-mentioned end and overlie the other side of the bag, said flap comprising two hingedly connected sections one end of one of which is connected to said body portion while the free end of the other section is adapted to separably enter said transverse fold of the bag as the cover is closed around the bag, the portions of said flap adjacent the hinged connection of said sections being insertible between said transverse marginal portion of the cover and said bag to hold the flap in cover-closing position.

5. A package comprising a bag having an opening at one end closable by a transverse fold in the bag inwardly of said opening, a cover consisting of a single strip of material secured adjacent one end to the other end of said bag, said cover strip extending along one side of the bag and being folded at the first mentioned end of the bag to form a closure flap having two sections connected by a fold, said sections of the flap being adapted to be disposed in side-by-side relation and extend along the other side of the bag with the free edge of the endmost flap section separably disposed within said transverse fold of the bag as the cover is folded around said bag, and means for releasably holding said closure flap in cover-closing position.

6. The package set forth in claim 5 wherein the last named means comprises a transverse

marginal portion on the first-mentioned end of said cover strip in spaced juxtaposed relation to the bag, between which and the bag the fold between said flap sections is insertible.

7. A package comprising a bag having an openable end and a transverse fold to permit closing and opening of said end, and a cover comprising a strip of material having a transverse fold adjacent one end around and secured to the other end of said bag, said strip having a fold also at the first-mentioned end of the bag to nicely receive said transverse fold of the bag and to form an integral closure flap which has a transverse fold forming two sections one of which is at the corresponding end of the strip and is adapted to be arranged beneath and in side-by-side relation to the other section with its free end edge separably disposed in said transverse fold of the bag to hold said fold between said edge and the second-mentioned fold of said cover strip, and means for releasably holding said closure flap with said edge thereof in said transverse fold of the bag as described.

8. A package comprising a bag having an open end and a transverse fold to permit closing and opening of said end, and a cover comprising a strip of material having a transverse fold adjacent one end around and secured to the other end of said bag, said strip having a fold also at the first-mentioned end of the bag to nicely receive said transverse fold of the bag and to form an integral closure flap which has a transverse fold forming two sections one of which is at the corresponding end of the strip and is adapted to be arranged beneath and in side-by-side relation to the other section with its free end edge separably disposed in said transverse fold of the bag to hold said fold between said edge and the second-mentioned fold of said cover strip, and means to releasably engage the transverse fold of said closure flap for releasably holding said closure flap with said edge thereof in said transverse fold of the bag as described.

9. The package set forth in claim 7 wherein said means for releasably holding the closure flap comprises a marginal end portion of said cover strip extending beyond the first-mentioned fold of the cover strip in spaced relation to the bag to receive between itself and said bag the fold that connects said sections of the closure flap.

10. A package comprising a bag having a transverse fold, a cover consisting of a single strip of material secured to the bag and extending along one side thereof and being folded to form a closure flap having two sections connected by a fold, said sections of the flap being adapted to be disposed in side-by-side relation and extend along the other side of the bag with the free edge of the endmost flap section separably disposed within said transverse fold of the bag as the cover is folded around said bag, and means for releasably holding said closure flap in cover-closing position.

11. A package comprising a bag initially closed at one end and having a tearing flap for removing said closed end to form a discharge opening, said bag having a transverse fold inwardly of said closed end to close said opening after removal of the tearing flap, and a cover secured to the bag and foldable therearound, said cover having a closure flap to separably enter said transverse fold and hold the fold against unfolding when the cover is folded around the bag, and

means for releasably holding said closure flap in cover-closing position.

12. A package comprising a bag having a discharge neck at one end and initially closed, and a tearing flap to be torn off across said neck to form a discharge opening, said bag having a transverse fold inwardly of said tearing flap to close said opening after removal of said tearing flap, and a cover secured to the bag and foldable therearound, said cover having a closure flap to separably enter said transverse fold and hold the fold against unfolding when the cover is folded around the bag, and means for releasably holding said closure flap in cover-closing position.

13. A package comprising a bag and a cover comprising a strip of material having a first fold adjacent one end around and secured to one end of said bag, said strip having a second fold extending around and receiving the other end of the bag to form an integral closure flap for overlying the other side of the bag, said closure flap having a transverse fold forming two sections one of which is at the corresponding end of the strip and is adapted to be arranged beneath and in side-by-side relation to the other section in contact with the bag and with its free end edge disposed adjacent said second fold, the marginal end portion of said cover strip extending beyond the first-mentioned fold of the cover strip in spaced relation to the bag, and the fold that connects said sections of the closure flap being insertible between said marginal end portion and said bag for releasably holding said closure flap in overlying relation to the second-mentioned side of the bag.

14. A package comprising a bag initially closed at one end and having a tearing flap for removing said closed end to form a discharge opening, said bag having a transverse fold inwardly of said closed end to close said opening after removal of the tearing flap, and a cover comprising a strip of material having a transverse fold adjacent one end around and secured to the other end of said bag, said strip having a fold also at the first-mentioned end of the bag to nicely receive said transverse fold of the bag and to form an integral closure flap which has a transverse fold forming two sections one of which is at the corresponding end of the strip and is adapted to be arranged beneath and in side-by-side relation to the other section with its free end edge separably disposed in said transverse fold of the bag to hold said fold between said edge and the second-mentioned fold of said cover strip, and means for releasably holding said closure flap with said edge thereof in said transverse fold of the bag as described.

15. In a package, a bag comprising opposed layers of flexible material forming between them a receptacle, said layers being sealed together at one end of the bag for closing said compartment, said bag having a tearing flap to open said closed end for producing a discharge opening for said receptacle when said flap is torn, said bag having a transverse fold inwardly of said tearing flap to close said discharge opening after removal of the tearing flap, and a cover comprising a strip of material having a transverse fold adjacent one end around and secured to the other end of said bag, said strip having a fold also at the first-mentioned end of the bag to nicely receive said transverse fold of the bag and to form an integral closure flap which has a transverse fold forming two sections one of which is at the corresponding end of the strip and is adapted to be

arranged beneath and in side-by-side relation to the other section with its free end edge separably disposed in said transverse fold of the bag to hold said fold between said edge and the second-mentioned fold of said cover strip, and means for releasably holding the closure flap comprising a marginal end portion of said cover strip extending beyond the first-mentioned fold of the cover strip in spaced relation to the bag to receive between itself and said bag the fold that connects said sections of the closure flap.

16. A package comprising a bag openable at one end and having a transverse fold inwardly of said end to close the opening, and a cover

comprising a strip having a body portion at one side of the bag and a transverse fold adjacent one end around and secured to the other end of the bag, said strip having a fold also at the first-mentioned end of the bag to nicely receive said transverse fold of the bag and to form one section of a closure to overlie the other side of the bag, said closure including a second section in the form of a flap on said strip to separably enter said transverse fold of the bag and hold the fold against unfolding when the cover is folded around the bag, and means for releasably holding said closure in cover-closing position.

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