

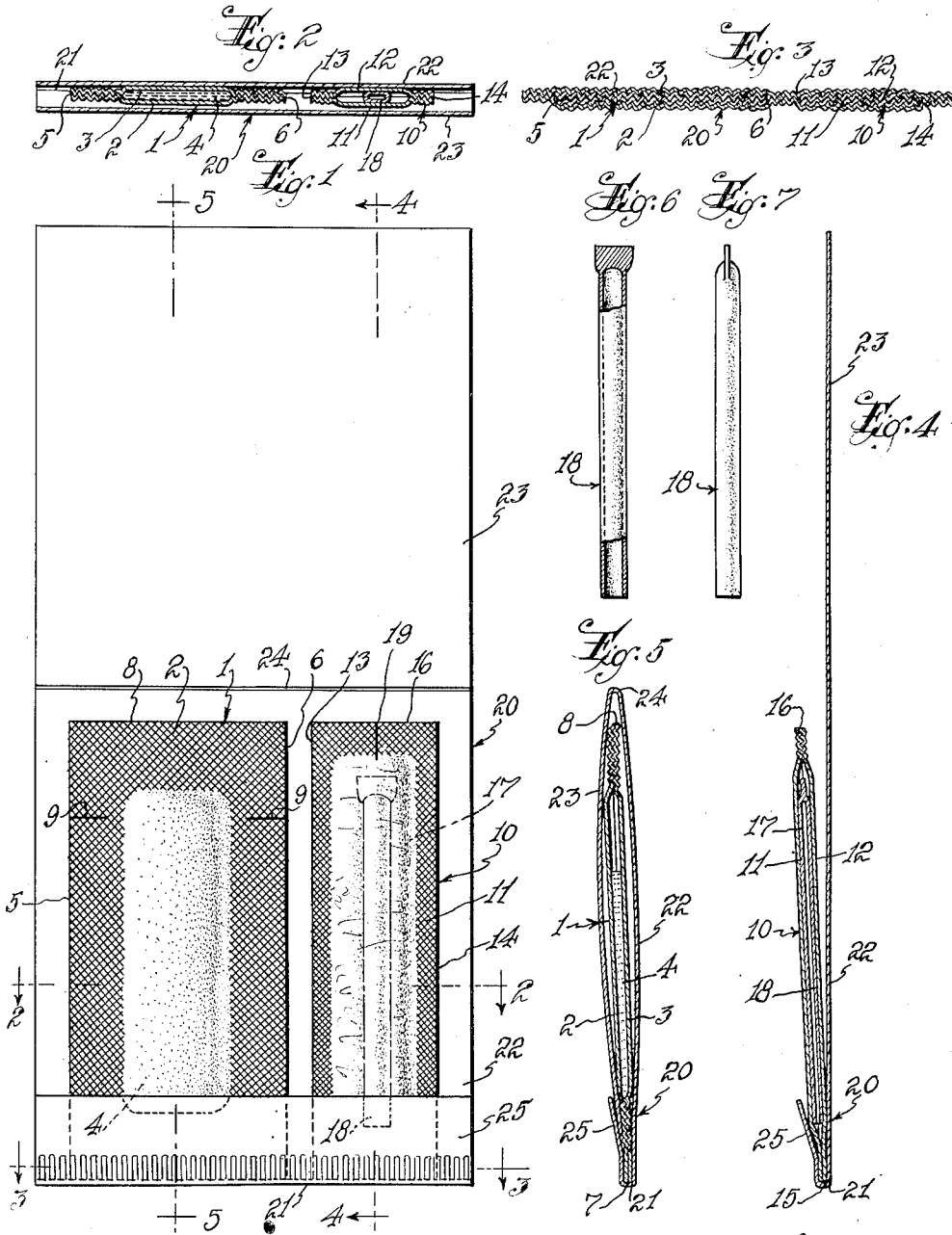
Nov. 10, 1953

L. I. VOLCKENING
NOSE OR EYE DROP PACKAGE

2,658,613

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2 Sheets-Sheet 1



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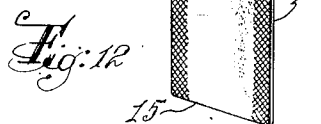
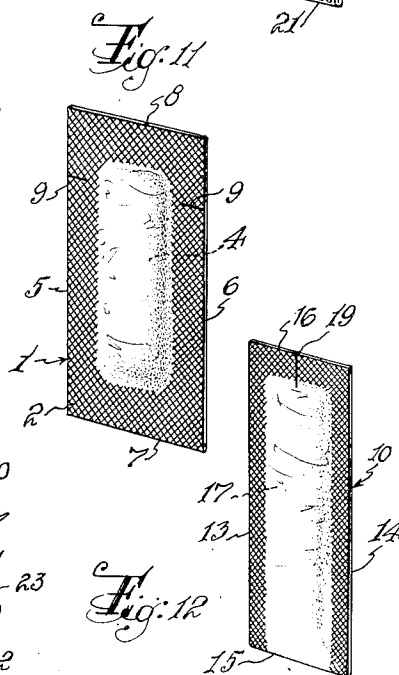
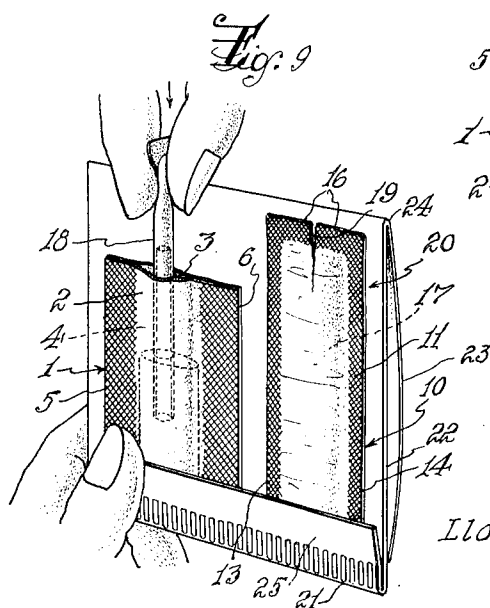
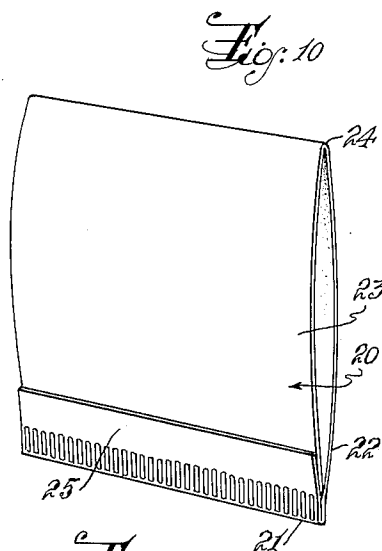
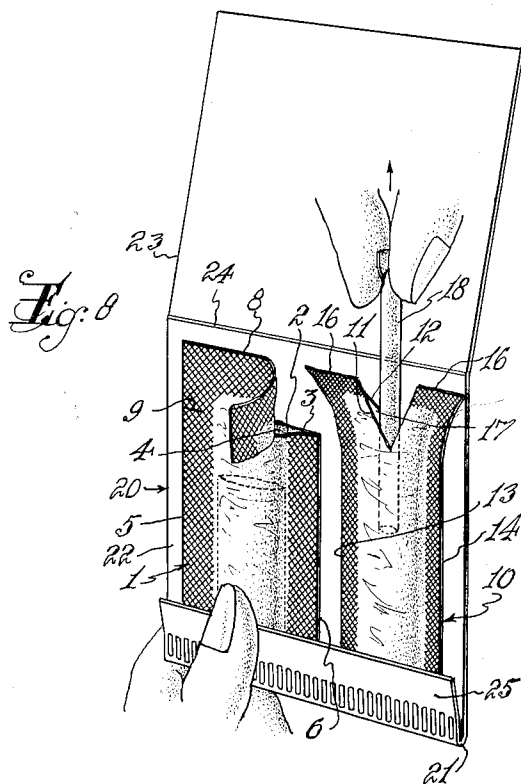
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UNITED STATES PATENT OFFICE

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NOSE OR EYE DROP PACKAGE

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1 Claim. (Cl. 206—63.2)

1

My invention relates in general to packages for powder, paste, tablets, liquids and the like, the prime object of the invention being to provide a package that shall include a novel and improved combination of an envelope containing a liquid such as an eye or nose drop composition, another envelope enclosing a dropper for dispensing the liquid and a foldable cover for enclosing and protecting both such envelopes.

It is another object of my invention to provide an eye or nose drop package of the character described wherein both envelopes may be opened and the nose or eye drop composition dispensed while the envelopes occupy their respective positions in the foldable cover.

It is still another object of my invention to provide such a package that shall be both simple and inexpensive in construction.

Other objects and advantages of my invention will become apparent as the course of the specification develops.

To attain the objects and advantages of my invention I provide a first envelope containing a liquid nose or eye drop composition and a second envelope enclosing the dropper for dispensing such liquid which envelopes are formed of a packaging material such as "cellophane," "pliofilm" or "foil." In the combination herein shown and described, the liquid containing envelope is formed from an opaque packaging material such as "foil" while the other envelope which encloses the dropper is formed from a transparent material such as "cellophane" or "pliofilm." These envelopes are secured at corresponding ends within a foldable cover, their other ends being free of the cover to permit such other ends to be opened and the liquid to be dispensed while the envelopes are secured to the cover.

I shall describe one form of my invention and then point out the novel features thereof in the claim.

In the accompanying drawings:

Figure 1 is a front elevational view of my eye or nose drop package with the cover open;

Figure 2 is a sectional view on the plane of the line 2—2 of Fig. 1;

Figure 3 is a sectional view on the plane of the line 3—3 of Fig. 1;

Figure 4 is a sectional view on the plane of the line 4—4 of Fig. 1;

Figure 5 is a sectional view on the plane of the line 5—5 but showing the cover in a closed position;

Figure 6 is a front elevational view partially

2

in section of the dropper for my eye or nose drop package;

Figure 7 is an end view of the dropper of Fig. 6;

Figure 8 is a perspective view of the package which view shows the dropper in the process of removal from its enclosing envelope;

Figure 9 is a perspective view of the package which view shows the dropper being used to extract some nose or eye drop composition from the liquid containing envelope;

Figure 10 is a perspective view of the eye or nose drop package with the cover closed;

Figure 11 is a perspective view of the liquid containing envelope;

Figure 12 is a perspective view of the envelope for enclosing the dropper.

Referring to the drawings, reference character 1 designates a liquid containing envelope constructed from opposed layers of packaging material 2 and 3. In constructing envelope 1, opposed layers 2 and 3 are initially sealed in all marginal portions except one. It is only after a nose or eye drop liquid has been introduced into the pouch formed by the initially sealed portions that the excepted marginal portion is sealed to form liquid containing compartment 4. In final form, envelope 1 has its opposed layers 2 and 3 crimped sealed in all marginal portions, namely, marginal portions 5, 6, 7 and 8, and the envelope is provided with aligned notches 9 at one end to facilitate opening the envelope when the nose or eye drop liquid is to be extracted from compartment 4.

I provide another envelope designated in the drawings by reference character 10, such other envelope 10 being constructed from opposed layers of packaging material 11 and 12 which are sealed in marginal portion 15, and crimped and sealed in marginal portions 13, 14 and 16 to form compartment 17. Compartment 17 encloses a dropper 18 which in the formation of compartment 17 is inserted between opposed layers 11 and 12 before all marginal portions have been sealed. Preferably, dropper 18 comprises a flexible walled tube of plastic material closed at one end as by sealing. Envelope 10 includes notches 19 at one end whereby envelope 10 may be readily opened when it is desired to remove the dropper.

Envelopes 1 and 10 may each be constructed from any one of a number of types of packaging material such as "cellophane," "pliofilm" or "foil." It is preferable, however, to construct at least one of the envelopes of a packaging

3

material which is transparent such as "cellophane" or "pliofilm" rather than of an opaque material such as foil. With one of the envelopes being transparent, the user of the package will know at a glance which of the envelopes contains the dropper and which contains the liquid, thus enabling him to remove and ready the dropper before opening the liquid containing envelope. A desirable combination is indicated in the drawings wherein the liquid containing envelope 1 is shown as being constructed from an opaque packaging material such as foil and the other envelope 10 which encloses the dropper 18 is shown as being constructed from a transparent packaging material such as "cellophane" or "pliofilm."

Envelopes 1 and 10 are both associated with a cover 20 which is foldable around the envelopes to enclose and protect them and to receive printed matter, such as advertising media. Preferably the cover is formed of a single strip of material relatively stiffer than the material of which the envelopes are formed. The cover is folded at 21 and envelopes 1 and 10 are secured at marginal portions 7 and 15 respectively in the fold by adhesive, or by heat and crimping where each of the envelopes is formed of a thermoplastic material. Cover 20 comprises a body portion 22 which lies along or is juxtaposed to one side of each of envelopes 1 and 10, and a flap 23 which is hingedly connected at 24 to body portion 22. As illustrated in the drawings flap 23 is of a size sufficient to cover the sides of envelopes 1 and 10 opposite the body portion 23 of cover 20. Cover 20 includes marginal end portion 25 beyond fold 21 which marginal end portion is in spaced relation to envelopes 1 and 10 so as to releasably receive the edge of flap 23 when the flap is folded around envelopes 1 and 10 to close cover 20. Flap 23 is in this manner held against unfolding, as indicated in Figs. 5 and 10.

In using the package (Figs. 8 and 9) envelope 10 is first torn at notches 10 to permit the removal of dropper 18 therefrom. After the dropper has been removed, liquid containing envelope 1 is torn along notches 9, and the dropper is inserted. The top of the dropper is pinched and then released, sufficient suction being created in this manner to extract the liquid from

4

the envelope. Since envelopes 1 and 10 are secured only at marginal portions 7 and 15 to cover 20, the other ends of the envelopes being free and accessible to the user of the package, it is unnecessary when using the package to remove either envelope from the cover.

Although I have herein shown and described only one form of my invention, it is to be understood that various changes and modifications may be made therein within the scope of the appended claim without departing from the spirit and scope of my invention.

Having thus described my invention, what I claim is:

In combination an approximately flat first envelope having walls of flexible packaging material and containing liquid such as a nose or eye drop composition, a second approximately flat thin envelope having flexible walls separate from said first envelope, a dropper enclosed within said second envelope and comprising a flexible-walled straight tube having its wall pressed into a seal at one end for dispensing the liquid in the first envelope, a flexible cover having a fold at one marginal portion, both said first and second envelopes being secured at corresponding ends to and held together solely by the cover in said fold, the other ends of the envelope being free of the cover and there being means to facilitate tearing of said flexible walls adjacent the second mentioned ends of the envelope to open said envelopes while the envelopes are supported by said cover at said corresponding ends, the sealed end of said dropper being disposed adjacent the second-mentioned end of the second envelope, said cover also having a flap foldable about the first and second envelopes and receivable by said marginal end portion to hold the flap against unfolding.

LLOYD I. VOLCKENING.

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