March 2, 1948. M. T. MARLER 2,437,110

PACKAGE

Filed June 24, 1944 2 Sheets-Sheet 1

Fig. 1.

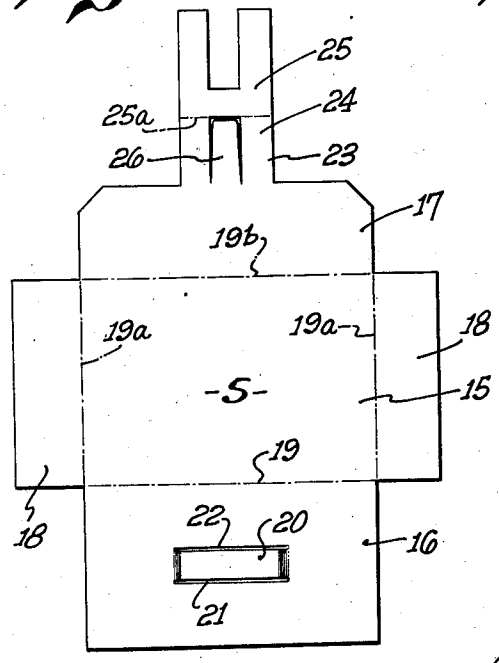
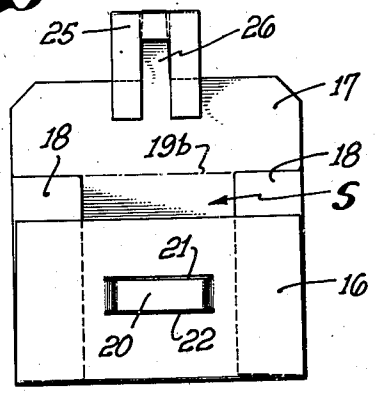


Fig. 2.



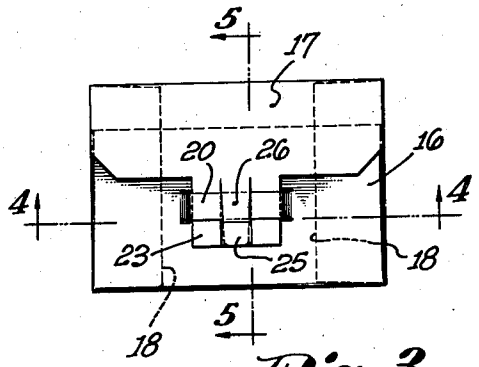


Fig. 3.

Fig. 4.

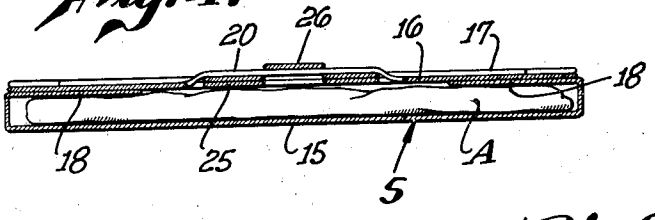


Fig. 5.

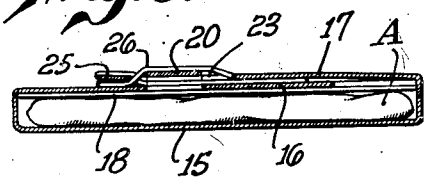
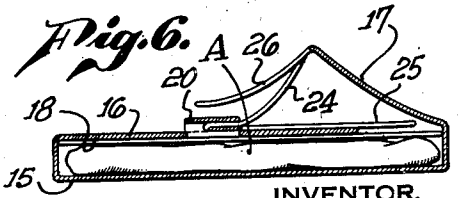


Fig. 6.



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March 2, 1948. M. T. MARLER 2,437,110

PACKAGE

Filed June 24, 1944 2 Sheets-Sheet 2

Fig. 7.

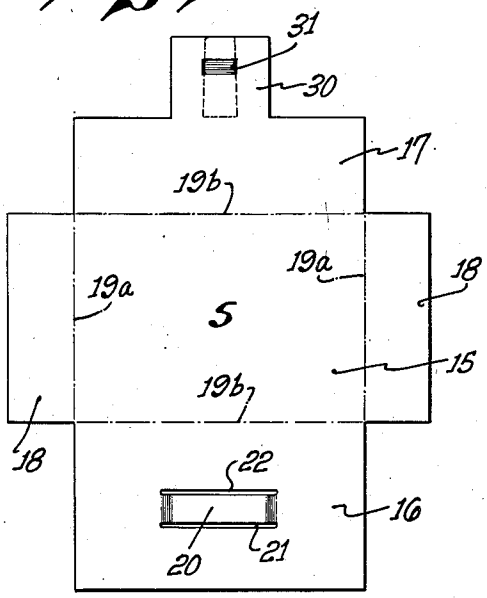
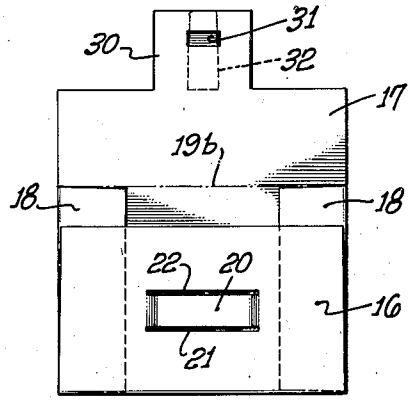


Fig. 8.



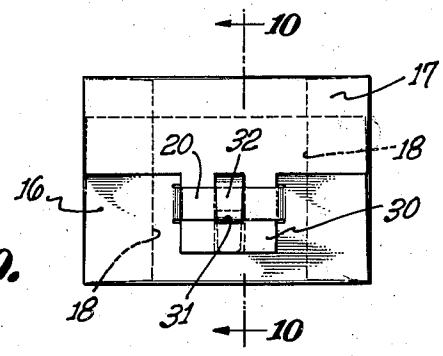


Fig. 9.

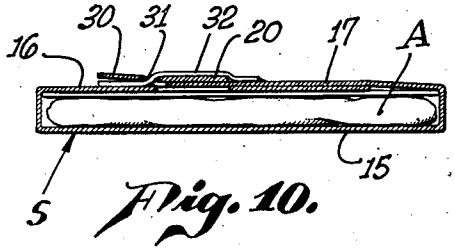


Fig. 10.

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Patented Mar. 2, 1948 2,437,110

UNITED STATES PATENT OFFICE

2,437,110

PACKAGE

Milton T. Marler, Los Angeles, Calif.

Application June 24, 1944, Serial No. 541,864

1 Claim. (Cl. 229—87)

1

My invention relates to paper or cardboard packages, and it has for a purpose the provision of a package more particularly designed, although not necessarily, for the wrapping of articles of merchandise incident to the sale thereof in stores, and which is characterized by eliminating the necessity of employing fastening means such as gummed tape, cord, metal fasteners, or by glueing any part of the package, and through the provision of a fastening means which, while of paper or any other material of which the package is made, is effective to retain the package closed against accidental opening and in enveloping form about the article, whereby the packaged article can be handled, carried, and even transmitted through the mail without loss of the article from the package.

In one embodiment of my invention the fastening means is an integral part of the package and is formed concurrently with cutting the package from a blank sheet. In another embodiment a part of the fastening means is separately formed and secured to the package. In either embodiment the package is structurally simple so that it can be manufactured cheaply, and the fastening means is such that it can be easily fastened and unfastened, and yet when fastened is locked against accidental unfastening.

I will describe only two forms of packages each embodying my invention, and will then point out the novel features thereof in claims.

In the accompanying drawings:

Fig. 1 is a plan view of the blank from which the package of Fig. 3 is formed.

Fig. 2 is a view showing the package of Fig. 3 with the closure flap in open position.

Fig. 3 is a view showing the preferred form of package in closed and locked position.

Fig. 4 is an enlarged longitudinal sectional view taken on the line 4—4 of Fig. 3.

Fig. 5 is an enlarged transverse sectional view taken on the line 5—5 of Fig. 3.

Fig. 6 is a view similar to Fig. 5 showing the initial step engaging the parts of the fastening means of the package.

Fig. 7 is a view similar to Fig. 1 showing another form of package embodying my invention.

Fig. 8 is a view similar to Fig. 2 of the package shown in Fig. 7.

Fig. 9 is a view of the package of Fig. 8 in closed and locked position.

Fig. 10 is an enlarged transverse sectional view taken on the line 10—10 of Fig. 9.

Similar references refer to similar parts in each of the several views.

2

Referring specifically to the drawings the preferred embodiment of my invention shown in Figs. 1 to 6 comprises a blank sheet S of relatively heavy paper or cardboard, depending upon the particular type of article of merchandise which it is adapted to contain. As shown in Fig. 1, all parts of the package of which it is formed are integral parts of the sheet S, and, hence, may be cut in a single operation by the use of a suitable die. The package, in this instance, is made up of a back section 15, a front section 16, a closure flap 17, and two end flaps 18. The front section 16 may be of the same length as the back section 15, but is of less width and is foldable along the scored line 19 so as to overlie the back section 15. Similarly, the end sections 18 are foldable along scored lines 19a so as to overlie the back section 15 and to be disposed beneath the front section 16 in the manner illustrated in Fig. 2. The closure flap 17 may be of the same length as both the back section 15 and the front section 16, but of less width than the front section 16. This flap 17 is foldable along the scored line 19b so as to overlie the free marginal edge of the front section 16, as illustrated in Fig. 3.

For detachably securing the closure flap 17 in the position shown in Fig. 3 and so that the front section 16 cannot accidentally open, I provide a simple and practical fastening means a part of which is integral with the closure flap 17, and another part of which is integral with the front section 16. The latter part comprises a keeper strap 20 formed from the front section 16 by slotting the paper at parallel spaced points as indicated at 21 and 22 and then bending the strap at its ends so that when the front section is folded on the back section (Fig. 2) the strap will be raised from the outer surface of the front section for a purpose to be described hereinafter.

That part of the fastening means integral with the closure flap 17 may be in the form of an H-shaped extension 23 with the parallel legs 24 thereof extending at one end from the free edge of the closure flap, and the transverse or bridging portion 25 connecting the legs medially of their ends. A locking tongue 26, preferably tapered, is formed from that portion of the paper between the legs 24 and the transverse portion 25, and being an integral part of the closure flap is attached thereto at one end.

In use of the aforedescribed package, the article of merchandise (indicated at A in Figs. 4, 5, and 6) of suitable size to be accommodated in the package, is placed on the back section 15, and then the ends flaps 18 are folded inwardly to over-

lie the article and confine it against endwise displacement from the package. This is followed by the front section 16 being folded over on the end flaps, and then the closure flap 17 folded to overlap the front section.

However, prior to this last described operation the extension 23 is folded transversely along the scored line 25a so that those portions of the legs 24 beyond the transverse portion 25 are doubled back and disposed beneath the other leg portions, as illustrated in Fig. 6. This manner of folding the extension provides the advantage of giving a double thickness to the leading end of the extension, thus reinforcing it and facilitating its extension beneath the raised strap 20.

The free or leading end of the extension 23 is, by flexing it in the manner shown in Fig. 6, now extended first through one slot 21 and then the other 22 so as to be disposed between the strap 20 and the front section 16. In its fully extended final position as determined by its length, the transverse portion 25 of the extension has passed to such a point from under the strap 20 as to permit extension of the free end of the tongue 26 beneath the transverse portion at a point between the legs 24 (Fig. 5).

With the parts of the fastening means interengaged as described, it will be clear that any tendency of the closure flap 17 to open will exert a pull on the extension 23 in the direction of the closure flap tending to withdraw it from beneath the keeper strap 20. But inasmuch as the tongue 26 is extended over the strap and beneath the transverse portion 25, the tongue coacts with the strap to resist any withdrawing movement of the extension, and thus the fastening means is locked against accidental unfastening and the closure flap secured in closed position. Manifestly, with the closure flap secured in closed position the other parts of the package are retained in their respective positions against accidental opening so that the package as a whole is retained in enveloping relation to the article contained therein to prevent loss of the article from the package.

The security with which my fastening means retains the package against accidental opening, is such that even under the roughest handling such as when the package is transmitted through the mail, it will not open, and yet when desiring to remove the article from the package this can be easily and quickly effected by withdrawing the tongue from beneath the transverse portion 25 for this allows the extension to be withdrawn from beneath the strap 20 and the closure flap opened.

Referring now to the other form of package embodying my invention as shown in Figs. 7 to 10, it is identical to the first form except as to the structure of the fastening means. Whereas in the first form the entire fastening means may be struck from the sheet of paper or cardboard from which the other parts of the package are formed and at the same time, the structure of the fastening means of the second form necessitates two operations to form it and two pieces of paper or cardboard.

In the second form of package the extension indicated at 30 is of generally rectangular form and integral with the free edge of the closure flap, and, hence, may be made from the same sheet as the other parts of the package and simultaneously therewith. This extension is formed with an opening 31 nearer the free end thereof, and of such size as to permit the extension therethrough of a locking tongue 32.

The tongue 32 which is likewise of paper or cardboard, is formed separately from the remainder of the package and attached at one end to the extension 30 by an adhesive or a staple, and in such position on the extension as to be extendable across the strap and into the opening 31.

To interengage the parts of the fastener and lock the closure flap 17 in closed position, the extension 30 is passed through the slots 21 and 22 and beneath the strap 20 to expose the opening 31 to the further edge of the strap. The tongue 32 is now extended over the strap and then into the opening 31 so that its free end is disposed beneath the projecting position of the extension (Fig. 10). As so disposed the tongue coacts with the strap to resist any withdrawing movement of the extension in the same manner as described in connection with the tongue 26, and thus the closure flap is locked in closed position. Similarly, the closure flap can be released for opening of the package by merely withdrawing the tongue from the opening 31.

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

I claim:

A package comprising: a blank of paper or like material having a back section; a front section foldable on the back section, a closure flap; end flaps on the ends of the back section foldable inwardly between said front and back sections; and fastening means for securing said closure flap folded on said front section, comprising a strap secured at its ends to said front section, an H-shaped extension on said closure flap foldable transversely along a line coinciding with that edge of the transverse portion thereof adjacent the closure flap, said extension extendable in its folded form beneath said strap a distance sufficient to project that edge of said transverse portion nearest the closure flap beyond that edge of said strap furtherest from the closure flap, and a tongue on said closure flap between the legs of said extension, said tongue extendable over said strap and then beneath said transverse portion at that projecting edge thereof nearest the closure flap.

MILTON T. MARLER.

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