

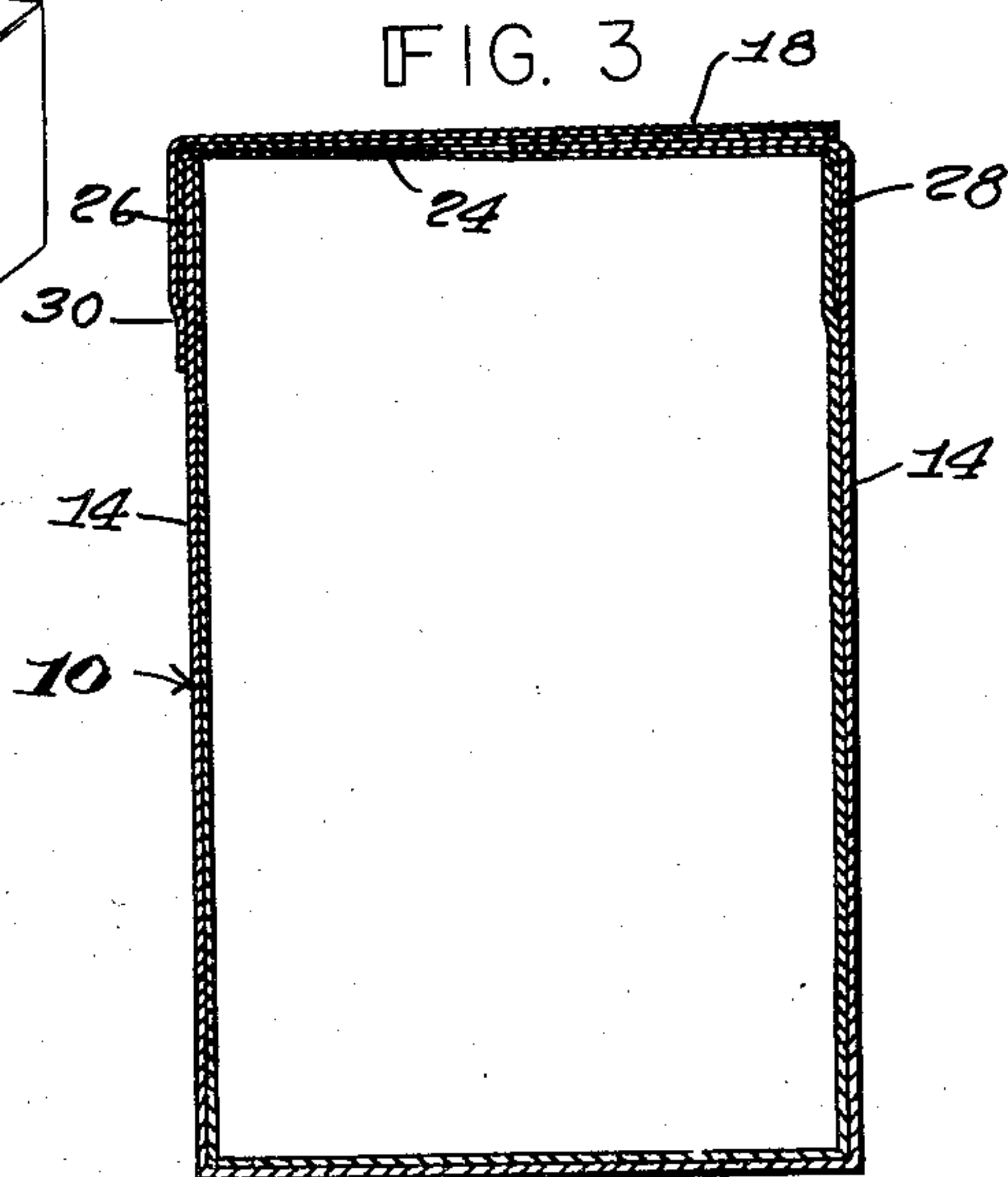
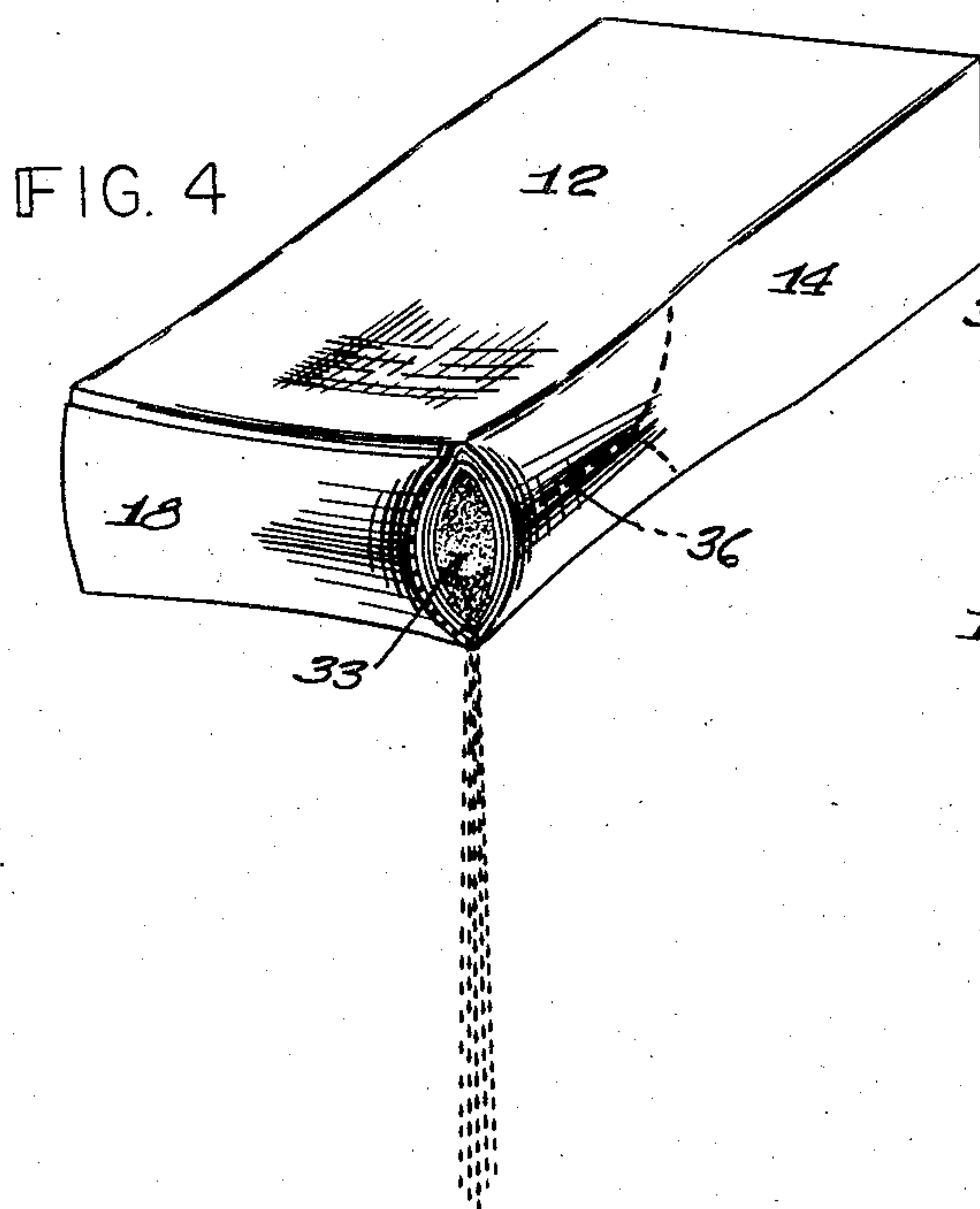
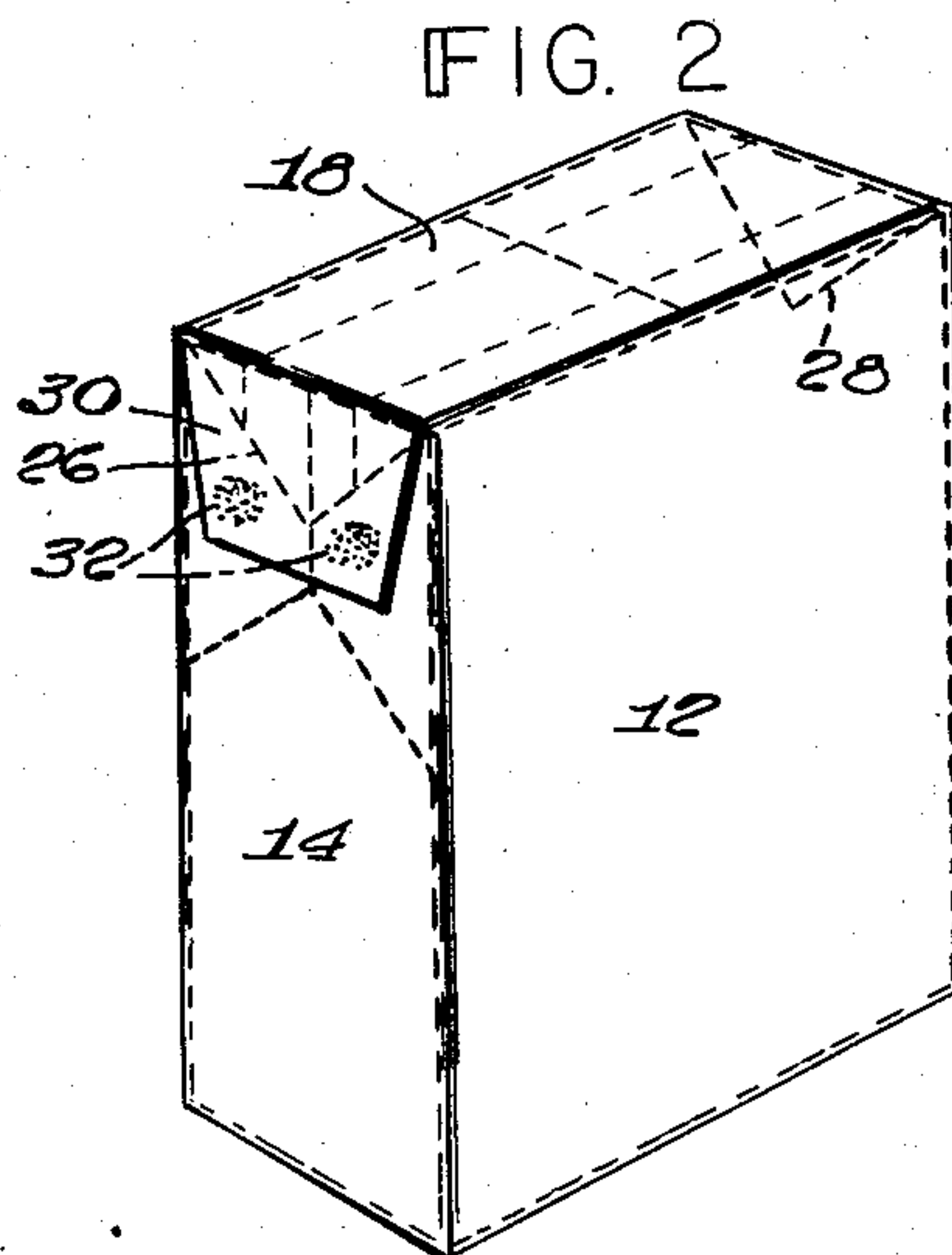
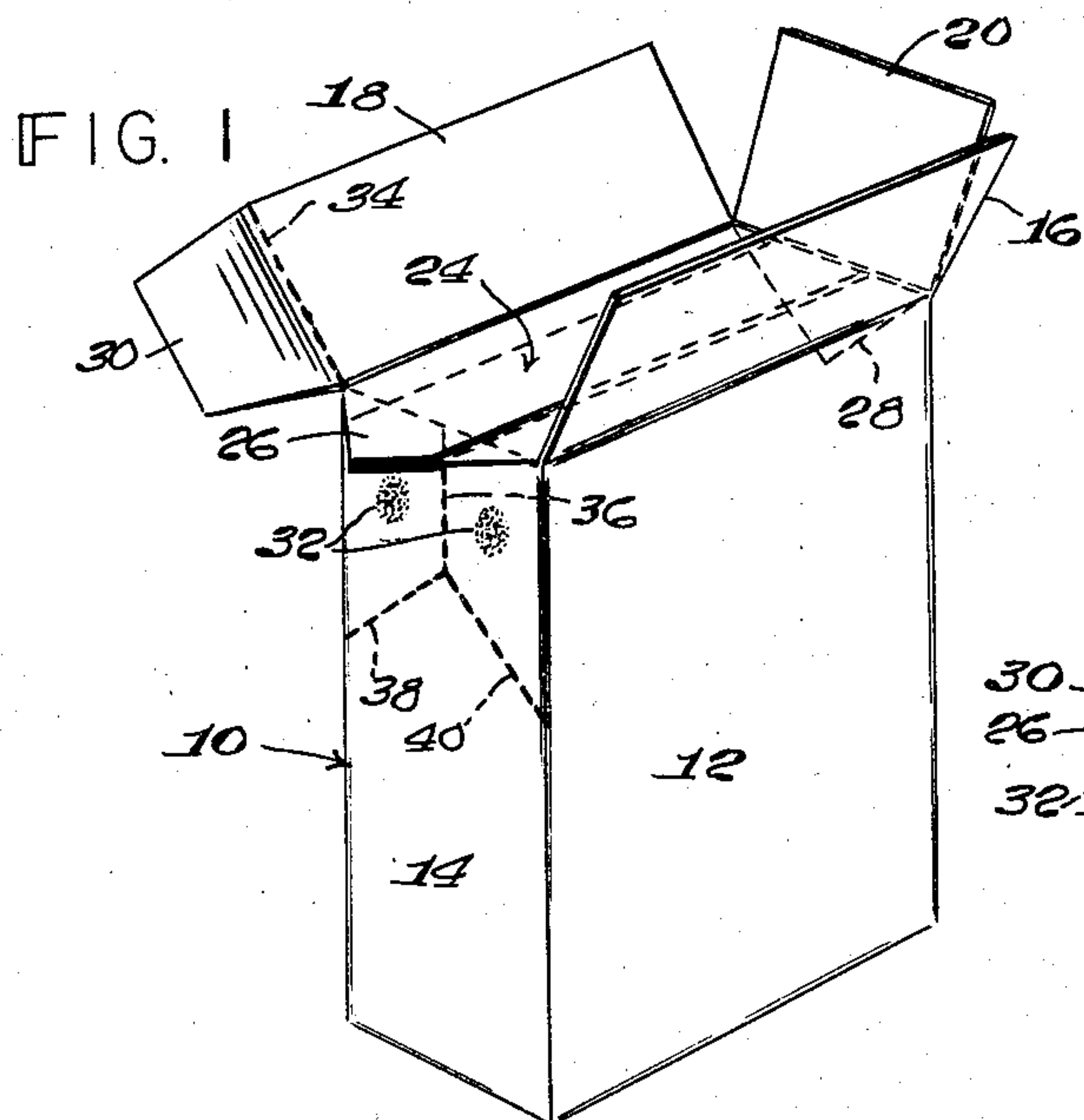
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PACKAGE

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2,850,222

PACKAGE

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This invention relates to a package.

The invention has for an object to provide a novel and improved package comprising a carton having an inner lining and containing flowable solid material and which is provided with a novel top closure having detachable portions which may be easily torn from the closure to form an outlet providing a pouring opening upon application of pressure to the sides of the carton.

With this general object in view and such others as may hereinafter appear, the invention consists in the package hereinafter described and particularly defined in the claims at the end of this specification.

In the drawings illustrating the preferred embodiment of the invention:

Fig. 1 is a perspective view of a lined carton for forming the present package showing the top closing flaps extended;

Fig. 2 is a perspective view of the present package in its completely closed and sealed condition;

Fig. 3 is a vertical cross sectional view of the package shown in Fig. 2; and

Fig. 4 is a perspective view of the present package with portions detached to form a pouring opening.

In general the present invention contemplates a novel and improved package comprising a lined carton wherein a portion of the lining top closure is folded with one of the carton closing flaps in a manner such that the carton closing flap and the adjacent portion of the lining closure may be detached and torn from the top closure to form an outlet providing a convenient pouring opening upon the application of pressure to the side walls of the carton.

Referring now to the drawings, the illustrated package comprises a carton having a body portion 10 including side and end wall panels 12, 14 respectively provided with three top closing flaps extended from and foldably connected to the body panels including side flaps 16, 18 and end flap 20, one of the end wall panels 14 being free of a closing flap, as shown. An inner lining or lining bag within the carton is folded to provide an elongated top closure, indicated generally at 24, herein shown as being formed by folding two opposed side walls of the lining mouth portion inwardly into overlapping relation and adhesively securing the same, and simultaneously folding opposed end walls of the lining mouth portion outwardly, thus forming hollow, laterally extended end tabs 26, 28, triangular in shape as illustrated.

In practice the present package is preferably formed in an automatic package forming machine known in the trade as a "double package maker" wherein the lining blank is wrapped about a forming block to form a tube and the lining end closure is made by folding extended portions of the lining against the end of the block, as described, one of the tabs, 28, being folded in against the side of the block, the other tab, 26, remaining in its laterally extended condition, as shown. Thereafter, the carton blank is wrapped about the lining on the block, and the first folded flap 20 may then be folded against

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the end of the block. Thereafter, the side flaps 16, 18 may be folded in succession one on top of the other and adhesively secured together.

As herein shown, the last folded side flap 18 may be provided with a lateral extension 30 foldably connected thereto and which is adapted to be folded down against and adhesively secured to the flap-free panel 14, the tab 26 being folded down with the flap 30 as shown in Fig. 2. The flap 30 is preferably secured to the panel 14 by relatively small bonding areas of adhesive, indicated at 32, to provide a frangible anchorage readily breakable to facilitate subsequent detachment of the flap from the panel 14, and the fold line between the flap 30 and the side flap 18 may and preferably will be weakened by providing spaced perforations or slits along the fold line, as indicated at 34, to facilitate subsequent tearing of the flap 30 from the carton when opening the same. In some instances the lining tab 26 may also be provided with a weakened line along its fold line to facilitate tearing of the same. It will be understood that the end closure, above described and herein referred to and used as the top closure in the completed package, is actually the first formed end closure, the lined package being subsequently removed from the forming block, filled upside down, and provided with the final end closure comprising the bottom closure in the completed package.

From the description thus far it will be seen that in use the flap portion or extension 30 may be easily detached by breaking the seals at the bonding areas 32 and that thereafter the extension 30 together with the tab 26 may be torn off the container along the fold lines thereof, thus forming an outlet comprising a slit opening along one edge of the top closure which provides a pouring opening 33 upon application of pressure to the sides of the package adjacent the ends of the slit, and through which the contents of the package may be poured, as shown in Fig. 4. Upon release of pressure against the sides of the carton, the resiliency of the carton forming material will cause it to spring back to its initial position, thus effecting reclosing of the pouring opening.

In order to facilitate bending or bowing out of the flap-free panel 14 upon application of side pressure, the panel may be provided with a longitudinal scored or weakened line 36 intermediate the sides of the carton, the lower end of the scored line terminating about half way down the length of the carton and branching out in diagonal scored lines 38, 40, as shown.

From the above description it will be seen that in the present structure of package the carton is provided with a novel top closure embodying the lining closure and the carton closing flaps wherein detachment of an exterior carton flap portion from the wall of the carton and tearing of the flap together with a portion of the lining closure forms a slit outlet along the edge of the package which may be opened to provide a pouring opening by pressure against the sides of the carton, the opening returning to its slit condition upon release of the pressure.

While the preferred embodiment of the invention has been herein illustrated and described, it will be understood that the invention may be embodied in other forms within the scope of the following claims.

Having thus described the invention, what is claimed is:

1. As a new article of manufacture, a package comprising a carton having body panels provided with extensions forming the top closing flaps, one panel being free of a top closing flap, and a lining within the carton having its mouth portion folded to form an elongated closure provided with laterally extended end tabs, one of said carton closing flaps having a lateral extension adapted to be folded down and adhesively secured to said flap-free body panel in the completed package with one of said laterally extended lining tabs folded down and interleaved and en-

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tirely concealed between said panel and said folded down extension, said lining tab being free of adhesive whereby detachment of said extension from the flap-free body panel and tearing of the entire extension and the lining tab along the fold lines thereof forms an outlet providing a pouring opening upon application of pressure to the sides of the carton.

2. A new article of manufacture as defined in claim 1 wherein said folded down extension is weakened along its fold line to facilitate tearing thereof from the top closure.

3. As a new article of manufacture, a package comprising a carton having body panels provided with extensions forming the top closing flaps, one panel being free of a top closing flap, and a lining within the carton having its mouth portion folded to form an elongated closure provided with laterally extended end tabs, one of said carton closing flaps having a lateral extension folded down and adhesively secured to said flap-free body panel in the completed package by relatively small bonding areas of adhesive providing a frangible anchorage readily breakable to facilitate detachment of the extension from the body panel, one of said laterally extended lining tabs being folded down and interleaved and entirely concealed between the panel and said folded down extension whereby detachment of said tension from the panel and tearing of the entire extension together with the interleaved lining tab along the fold lines thereof forms an outlet providing a pouring opening upon application of pressure to the sides of the carton.

4. A new article of manufacture as defined in claim 3

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wherein return of the carton to its initial condition upon discontinuance of said side pressure effects reclosing of said pouring opening.

5. A new article of manufacture as defined in claim 3 wherein said folded down extension is weakened along its fold line to facilitate tearing thereof from the top closure and wherein the flap-free panel is provided with a longitudinally extended weakened line to facilitate outward bowing of the panel upon application of pressure to the sides of the carton to open said outlet.

6. As a new article of manufacture, a carton having top closing flaps, and a lining for the carton having its top folded to form a tab extending outwardly beyond one wall of the carton and folded downwardly against the outer surface of said wall of the carton, an extension from one of said top closing flaps being folded down over said lining tab and adhesively secured to said wall, said lining tab being entirely free of adhesive and entirely confined between said wall and said extension, whereby detachment of said extension from said wall and tearing of the entire extension and the lining tab along the fold lines thereof forms an outlet providing a pouring opening upon application of pressure to the sides of the carton.

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