Jan. 1, 1929. 1,697,664

J. S. SCHWEICH

CARTON

Filed Sept. 3, 1927

Fig. 1.

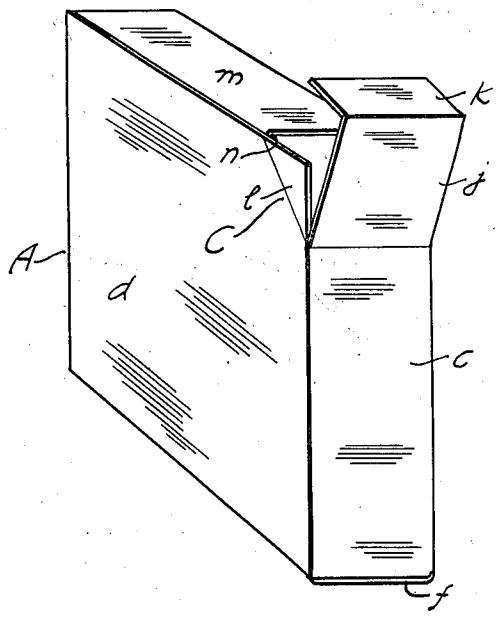


Fig. 2.

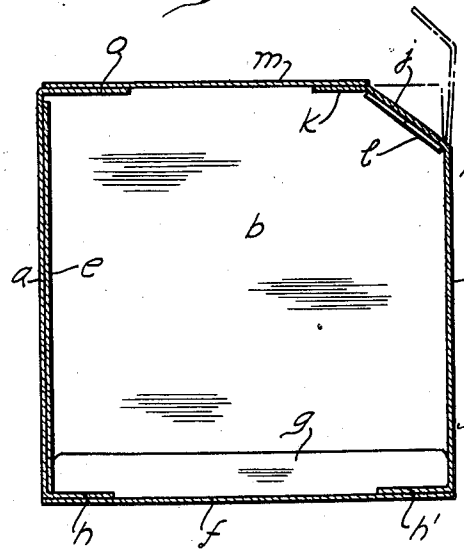
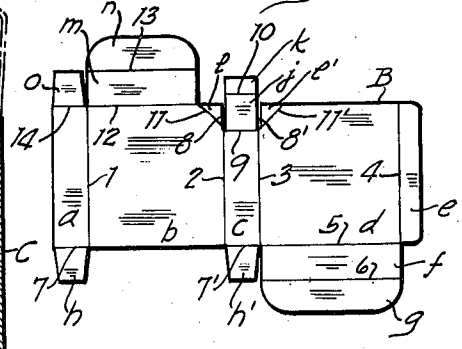


Fig. 3.



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UNITED STATES PATENT OFFICE.

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CARTON.

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This invention relates to a certain new and useful improvement in cartons and has for its object the provision, as a new article of manufacture, of a carton having, in addition to its usual opening or open side, a supplemental or auxiliary top or corner opening and readily manipulated, independent closure means therefor, whereby removal or inspection of the contents of the carton is conveniently facilitated.

And with the above and other objects in view, my invention resides in the novel features of form, construction, arrangement, and combination of parts hereinafter described and pointed out in the claims.

In the accompanying drawing,

Figure 1 is a perspective view of a carton embodying my invention;

Figure 2 is a longitudinal sectional view of the carton; and

Figure 3 is a plan view of the cut and scored blank of which the finished or complete carton is constructed.

Referring now more in detail and by reference characters to the drawing, which illustrates a preferred embodiment of my invention, A designates the finished or complete carton, which is constructed of the blank B shown in Figure 3.

The blank B is composed preferably of card-board or other suitable material of suitable weight, thickness, and dimensions for the desired use and purpose, the carton A being preferably of general flat rectangular configuration and contour, as best seen in Figure 1, with one corner, as at C, thereof, however, obliquely disposed to the opposite and remaining corners of the carton.

For the folding formation of carton A, the blank B is scored transversely along the lines 1, 2, 3, and 4, and thereby divided into an end-wall member *a*, a side wall portion *b*, an opposite end wall portion *c*, an opposite side wall portion *d*, and a complementing end-wall member *e*. It will be noted that such score-lines 1, 2, 3, and 4 are so spaced that the resulting wall-forming portions *a* and *c* are of the same width or breadth, as are also the wall-forming portions *b* and *d*.

At one side edge and throughout the length of side wall portion *d*, the blank B is scored longitudinally along the line 5 and extended laterally for the provision of a bottom-wall forming flap *f*, which, in turn, is scored longitudinally along the line 6 in the production of a lip *g*. On the same side edge and throughout the length of the end-wall portions *a* and *c*, the blank B is scored, as at 7, 7′, and extended laterally for the provision of complementing bottom wall flaps *h*, *h*′.

At its end opposite the flap *h*′, the end-wall portion *c* is extended, as at *j*, and for a suitable distance inwardly from the adjacent side edge of the blank B, the blank is kerfed, as at 8, 8′, along the score-lines 2 and 3, the end-wall portion *a* being then scored on a line, as at 9, running at the base of the kerfs 8, 8′, longitudinally of the blank. The one end-wall portion *c* is thereby reduced in length relatively to the other end-wall forming-portions *a*, *e*, and its extension *j* converted into a foldable flap, for purposes shortly appearing, which, in turn, is scored, as at 10, and thereby provided with a lip *k*. Then on opposed oblique lines 11, 11′, running or extending from the base of the kerfs 8, 8′, to the adjacent side edge of the blank B, the blank is scored and thereby provided with opposed and oppositely foldable corner flaps *l*, *l*′.

On the same side edge of blank B and throughout the remainder of the length of the wall portion *b* upon said blank side edge, the blank B is scored longitudinally along the line 12 and extended laterally for the provision of a flap *m*, which, also in turn, is scored longitudinally along the line 13 in the production of a lip *n*. By reason of the corner-flap *l*, it will be noted that the one lipped flap *m* is of reduced width relatively to both its adjacent wall-portion *b* and the opposite lipped flap *f*.

On the same side edge of blank B with the flaps *j* and *m* and opposite the flap *h*, the blank B at its said end-wall forming portion *a* is scored, as at 14, and extended laterally for the provision of an additional flap *o*.

As so formed and scored, the blank B is readily folded into finished carton shape, the one flap *e* being brought over and disposed flatwise upon the inner face of, and then adhesively or otherwise fixed to, the opposite flap *a*. With the flaps *a* and *e* so fixed together, the portion *c* forms a first end wall, the complementing flaps *a* and *e* form an opposed end wall, and the portions *b* and *d* form the opposite or opposed side walls of the carton A. The opposed flaps *h* and *h*′ are then first folded inwardly on the score lines 7 and 7′, respectively, when

the flap f is folded thereover and its lip g tucked in between the side wall b and the adjacent side edges of the folded flaps h and o. The so folded and secured flaps h, h', and f thus form a bottom wall, or as termed in some of the appended claims an opposed top wall, of the carton. In a similar manner, the end wall flap o and side wall flap m with its lip n are folded relatively to the body of the carton or blank and in a like manner form and provide the first top wall of the carton.

By foldable disengagement of either or both the main or first top flap m and the opposed flap f, the contents of the carton are readily accessible for inspection or removal.

However, the reduced first top wall flap m and the reduced first end-wall c provide or form in the finished or complete carton a corner-opening continuous with the top opening of the carton, the latter being closable by the independently foldable flap m, and with flap m in carton-closing position, both inspection and often the removal of the carton-contents is readily and conveniently facilitated by the also independently foldable lipped corner-flap j. In closing the carton at its said oblique corner-opening, the angular side wall flaps l and l' are first folded inwardly in opposed relation, and the flap j then disposed thereupon and its lip k, in removable flap-securing arrangement, tucked in beneath the closed top flap m. On reverse folding of the flaps j and l and l', a convenient opening into the carton for inspection or removal of its contents is presented and afforded.

The carton, which is simple and inexpensive in structure, thus lends itself to efficient use in many industries.

I am aware that changes in the form, construction, arrangement, and combination of the several parts of my new carton may be made and substituted for those herein shown and described without departing from the nature and spirit of my invention.

Having thus described my invention, what I claim and desire to secure by Letters Patent is:

1. As an article of manufacture, a carton comprising a first top wall, an opposed top wall, a first end wall, an opposed end wall, and opposed side walls, the carton having an opening intermediate said first top and end walls, and closure-means on the carton for said opening, said means including oppositely foldable flaps on said side walls, and a flexible flap projecting from said first end wall and foldable over the first flaps and engageable under said first top wall.

2. As a new article of manufacture, a rectangular carton comprising a first top wall, an opposed top wall, a first end wall, an opposed end wall, and opposed side walls, the carton having an opening at a corner thereof, and closure-means on the carton for said opening, said means including oppositely foldable flaps on said side walls, and a flexible flap projecting from said first end wall and foldable over the first flaps and engageable under said first top wall.

3. As a new article of manufacture, a rectangular carton comprising a first top wall, an opposed top wall, a first end wall, an opposed end wall, and opposed side walls, said first top and end walls being of reduced length relatively to their respective opposed walls and the carton being thereby provided with an opening at a corner thereof, and closure means on the carton for said opening, said means including oppositely foldable triangularly-shaped flaps on said side walls, and a flexible flap-extension on said first end wall foldable over said triangularly-shaped flaps and engageable under said first top wall.

4. As a new article of manufacture, a rectangular carton having a top-opening and comprising a bottom wall, a first end wall, an opposed end wall, and opposed side walls, said first end wall being of reduced length relatively to said opposed end wall and the carton being thereby provided with an end opening continuous with said top opening, and closure-flaps on the carton for said openings, a corner of the carton being obliquely disposed to the body of the carton when said end-opening is closed.

5. As a new article of manufacture, a rectangular carton having a top-opening and comprising a bottom wall, a first end wall, an opposed end wall, and opposed side walls, said first end wall being of reduced length relatively to said opposed end wall and the carton being thereby provided with an end opening continuous with said top opening, and independently foldable closure-flaps for selectively closing said openings, a corner of the carton being obliquely disposed to the body of the carton when said end-opening is closed.

6. As a new article of manufacture, a carton having a top-opening and comprising a bottom wall, a first end wall, an opposed end wall, and opposed side walls, said first end wall being of reduced length relatively to said opposed end wall and the carton being thereby provided with an end opening continuous with said top opening, a lipped flap extending from one of said side walls for closing said top opening, and closure means for said end opening, said means comprising oppositely foldable flaps on said side walls, and a second lipped flap extending from said one end wall and foldable over said side wall flap and engageable with said first lipped flap.

7. As a new article of manufacture, a rectangular carton open at its top and comprising a bottom wall opposed to the open

top of the carton, a first end wall, an opposed end wall, and opposed side walls, a flap extending from one of said side walls and foldable upon the carton for closing the open top thereof, said flap being of reduced length relatively to said bottom wall and spaced at one end from said first end wall and said first end wall being of reduced length relatively to said opposed end wall and spaced from the top edges of said side walls, whereby the carton is provided with a corner-opening, and means on the carton for closing said second opening, a corner of the carton being obliquely disposed to the body of the carton when said end-opening is closed.

8. As a new article of manufacture, a rectangular carton open at its top and comprising a bottom wall opposed to the open top of the carton, a first end wall, an opposed end wall, and opposed side walls, a flap extending from one of said side walls and foldable upon the carton for closing the open top thereof, said flap being of reduced length relatively to said bottom wall and spaced at one end from said first end wall and said first end wall being of reduced length relatively to said opposed end wall and spaced from the top edges of said side walls, whereby the carton is provided with a corner opening, and closure means on the carton for said corner opening, said means including oppositely foldable corner-flaps on said side walls, and a flap extending from said end wall and foldable over said corner flaps and engageable at its free end under said first flap.

9. As a new article of manufacture, a rectangular carton comprising a first top wall, an opposed top wall, a first end wall, an opposed end wall, and opposed side walls, said first top and end walls being of reduced length relatively to their respective opposed walls and the carton being thereby provided with an opening at a corner thereof, and closure means on the carton for said opening, said corner being obliquely disposed to the body of the carton when said end-opening is closed.

In testimony whereof I affix my signature.

JULIUS S. SCHWEICH.