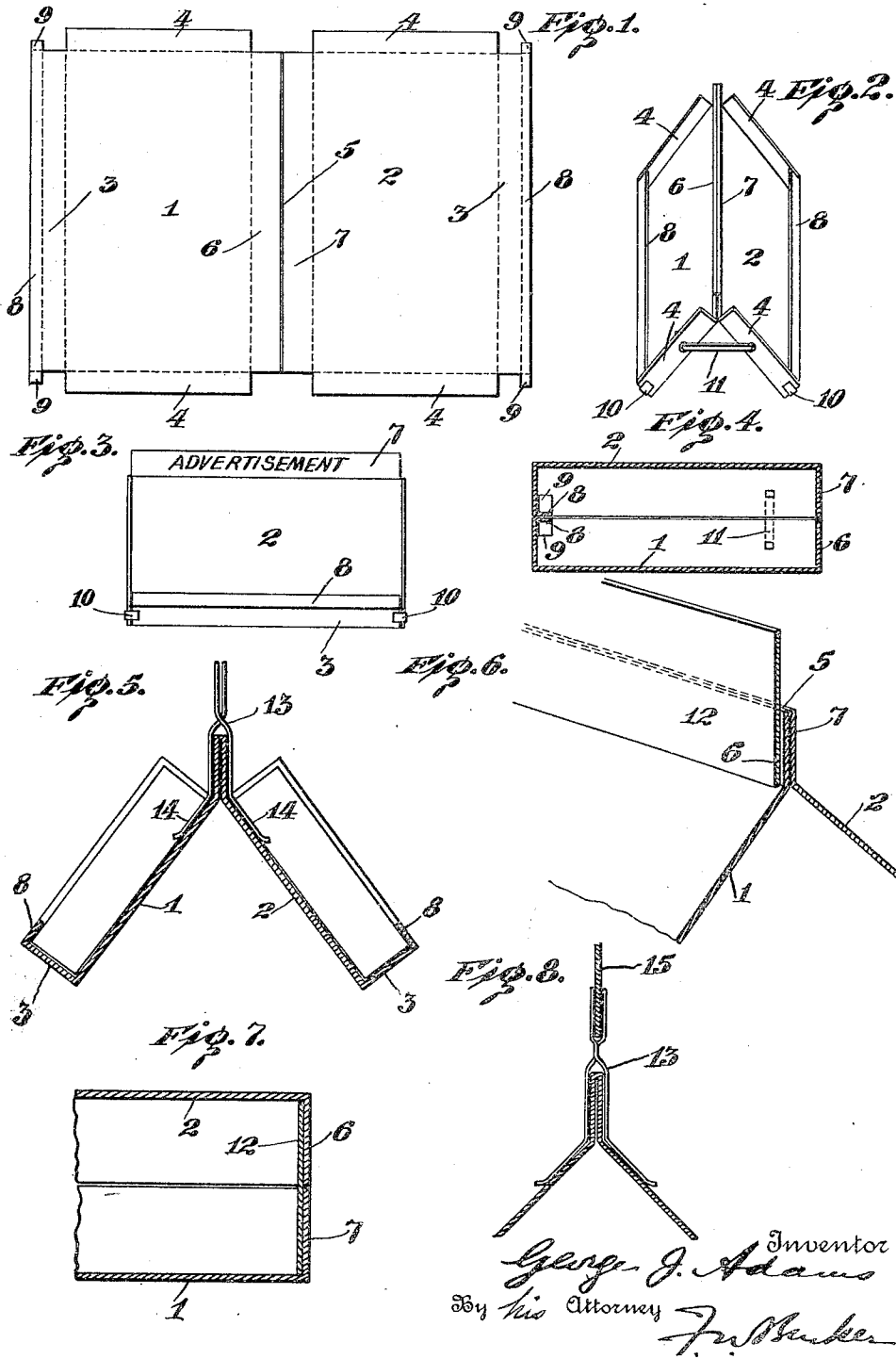


G. J. ADAMS.
 CARTON.
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UNITED STATES PATENT OFFICE.

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To all whom it may concern:

Be it known that I, GEORGE J. ADAMS, a citizen of the United States, and resident of the Borough of Manhattan, in the city, county, and State of New York, have invented certain new and useful Improvements in Cartons, of which the following is a specification.

This invention relates to cartons for containing articles of confectionery and the like, with the two-fold function of serving as a shipping package when closed, and a display receptacle when open; and my improvements are directed particularly to a novel carton formed from a single blank, having the characteristic, when closed, of comprising a duplex container; and, when open, constituting a self-supporting display device with the goods therein contained exposed to view from opposite directions.

The two members of the duplex carton are connected by a web, which forms one of the walls of the carton as closed; said web having an intermediate flexing line, which enables its thus divided parts to fold together when the carton is opened for display purposes.

The connecting web for the carton members bears disengaged relation to the adjacent walls with which it co-acts, when the carton is closed, as a retaining side; whereby, when the carton members are opened out, and folded backwardly from the flexing line of said web, said web may be doubled upon itself, upstanding, to afford advertising area on both sides, while the forward base edges of the carton find lodgment upon a supporting surface, with each member extended at opposite outward inclinations from said doubled web.

A further function is fulfilled by the opened out carton, in that the web, then having moved away from the contained goods, at one side thereof, with respect to each member of the duplex container, thereby exposes the goods at that side, in addition to the exposure thereof at the front of each uncovered carton portion; the clearance thus provided very greatly facilitating the operation of removing individual pieces of the contained goods, which may be more or less tightly packed. Means, as an elastic band, extended between the carton members, serve to limit their spread when opened out for display purposes; or a clip, fitting over the folded web, with out-turned fingers to

bear against said members, may be employed in the same capacity.

Other features and advantages of my said invention will hereinafter appear.

In the drawing: Figure 1 is a view of a blank from which my improved carton may be formed. Fig. 2 is a perspective view of the carton, opened out for use as a display container. Fig. 3 is a front elevation of Fig. 2. Fig. 4 is a transverse section through the closed carton. Fig. 5 is a transverse section through the carton as spread out for display purposes. Fig. 6 is a partial detail view, in perspective, showing an auxiliary advertising, and carton stiffening member, as displayed. Fig. 7 is a partial cross-sectional view of a closed carton with the auxiliary member therein serving to stiffen the web, and Fig. 8 is a partial cross-sectional view of the folded web and inclined carton members, with a combined display-card holder and web binding clip, the latter also serving to limit the spread of the carton members.

Economy of both material and labor being essential in the production of cartons used as containers for shipping, and handling in commerce, quantity goods, like confectionery, my improved carton has been devised from a single blank, cut to conserve the material from waste, and to provide a relatively large containing capacity for the resulting receptacle. The carton, in fact, consists of two separate containers without covers, closure being effected by bringing the open sides of said containers together, somewhat in the manner of closing a portmanteau.

My improved blank, shown in Fig. 1, consists of the body portions 1, 2, respectively having the side flaps 3, 3, and end flaps 4, 4, said body portions 1, 2, being connected by a divisional web, which itself is divided by a medial flexing line 5; the web material 6, at one side of said line 5, forming a flap for the body portion 1, and the web material 7, at the other side of said line 5, forming a flap for the body portion 2. The said web 6, 7, which comprises a connecting link between the body portions 1, 2, is of twice the width of the side flaps 3, in order that, when the carton is closed, said web may form an end wall for both said body or container portions; said web being in fact movable, to fold up against the contiguous, otherwise open, ends of said con-

tainer portions, to form a continuation of the side flaps or walls 3, 3. The medial divisional line 5, which divides the web portions 6, 7, may be produced by scoring or otherwise weakening the web material, to thus localize the fold, and enable the material of the web to more freely yield along said line. It will be clear that when the flaps 3 and 4 are bent right angularly to the body portions 1 and 2, and said portions 1 and 2 are folded one upon another without flexing their connecting web, that the flaps 6 and 7, comprising said web, will complete the closure, as represented in the closed carton of Fig. 4.

The flaps 4, 4, each have an extension 8, with end tabs 9, said extensions, in the formed carton, being folded over to comprise ledges, parallel with their respective body portions, to provide ample closure seating surfaces; and said ledges also assisting in the formation of recesses or pockets in which to seat the goods. The tabs 9 at the ends of extensions 8, are to be folded in at right angles, and secured, as by glue, to the adjacent flaps 3. Metal cleats or fastenings 10 may also be applied to the corners at the junction of flaps 3 and 4, to unite said flaps in the formed structure.

The carton, closed as in Fig. 4, and containing goods, being sealed in any usual manner, may be passed to the retailer, who may open it up, turn the duplex members thereof back upon the flexing line 5, and employ the carton as a display stand for the goods, in the manner shown in Fig. 2. In this figure will be seen an elastic band 11, between the two carton members, the tension of said band drawing together the web flaps 6 and 7, and also operating against gravity, in the weight of the goods and carton, to hold the carton members at a suitable angle; the forward base edges of the carton members having supporting lodgment, as upon a counter. The goods contained in said carton are thus displayed to the observer in opposite directions.

Obviously, with the carton in the afore-said display position, the folded web is immediately upstanding, leaving clearances between its opposite surfaces and the goods contained in the respective carton members. By means of these clearances the goods may be easily detached and removed from their containers. Further, the respective surfaces of said web portions 6 and 7 may be utilized for appropriate display notices or advertisements of the goods, as seen in Fig. 3.

Since the vertical extent of said web portions 6 and 7 is necessarily limited, I may increase that extent as by securing a strip 12, see Fig. 6, of the full width of the web, to one portion thereof, thereby doubling the vertical extent of the display surfaces which are thus available. Said strip 12, being of

the same width as the web, reinforces the latter when said web is extended to become one of the inclosing walls of the carton as closed. This last named function of the strip 12 is important, because the web, on account of its flexing line, which has a weakening influence, affords less resistance against pressure tending to crush the package, than the carton walls formed by the flaps 4, with seating ledges 8.

Instead of, or in addition to, the elastic band 11, I may employ a clip, as 13, adapted to fit over and clamp together the folded web portions, to bind them together, see Figs. 5 and 8, said clip having inclined fingers 14, which bear respectively against the body portions 1 and 2, to limit the extent of their spread. Said clip may also be adapted to support an advertising sign, as 15, at its upper portion.

Variations may be resorted to within the spirit and scope of my said invention, and parts thereof used without others.

I claim:

1. A carton formed from a single blank, and consisting of two container portions having a connecting web, said web comprising a movable wall to form an end closure for the carton, and said web flexing in opening out said containers at opposite display angles.

2. A carton formed from a single blank, and consisting of two container portions having a connecting web, said web comprising a movable wall to form an end closure for the carton, and said web flexing in opening out said containers at opposite display angles, and means for limiting the angular spread of said containers at predetermined, opposite display angles.

3. A carton formed from a single blank, and consisting of two container portions having a connecting web, said web comprising a movable wall to form an end closure for the carton, and said web flexing in opening out said containers at opposite display angles, and said web affording opposite advertising areas intermediately above said containers.

4. A carton formed from a single blank, and consisting of two container portions having a connecting web, said web comprising a movable wall to form an end closure for the carton, and having a medial flexing line, and a stiffening strip of the same width as said web and secured thereto at one side of its flexing line, said web alone flexing in opening out said containers at opposite display angles.

5. A carton formed from a single blank, and consisting of two container portions, each having a wall around three sides thereof, and an open side, a connecting web between the opposed free sides of said containers, and an inturned ledge along opposed walls, forming seats, said web forming a

movable wall for the open sides of said container portions, to close the carton, and said web flexing in opening out said containers at opposite display angles.

5 6. A duplex combined carton and display receptacle formed from a single blank, the same comprising a pair of containers, a flexing, connecting web for contiguous sides of said carton, forming a movable wall therefor, and a fixed wall surrounding the other 10 sides of each of said containers, said walls abutting edgewise to form, with said web, a surrounding closure for the carton when its containers are folded together, said web folding 15 when flexed, with the containers turned outwardly at opposite display angles for their contents, whereby advertising matter is exposed, upon each fold of said web, above said container.

20 7. A carton consisting of two container portions having a connecting web, said web comprising a movable wall to form an inclosure for the carton, and said web flexing in opening out said containers at opposite 25 display angles.

8. A carton formed from a single blank, and consisting of two container portions having a connecting web, said web forming a movable wall to close contiguous ends of 30 said containers when the latter are folded together in the closed form of the carton, and said web uncovering said contiguous container ends when said containers are opened out at display angles.

9. A carton formed from a single blank, 35 and consisting of two container portions having a connecting web, said web movable to and from contiguous ends of said containers to form a closure wall therefor, and to uncover said ends, respectively, when said 40 containers are folded together, and opened out at display angles, and said web flexing upon itself in the opening out of said containers.

10. A carton consisting of two container 45 portions each having side walls and one end wall, and a connecting web bendable to removably form the other end wall for each container, said web having a weakened dividing line at which its divided parts may 50 fold when using the containers for display purposes.

11. A carton consisting of two container portions each having side walls and one end 55 wall, and a connecting web bendable to and from the exposed ends of said containers, respectively as said containers are folded together for closure, or opened out for display purposes, said web having a weakened dividing line at which its divided parts may fold 60 when opening out the containers.

Signed at the borough of Manhattan, in the city, county and State of New York, this 28th day of March, A. D. 1916.

GEORGE J. ADAMS.

Witnesses:

F. W. WALKER,
M. S. BARKER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."