May 23, 1939. H. L. GREVE 2,159,737

CARTON

Filed March 30, 1938

Fig:1.

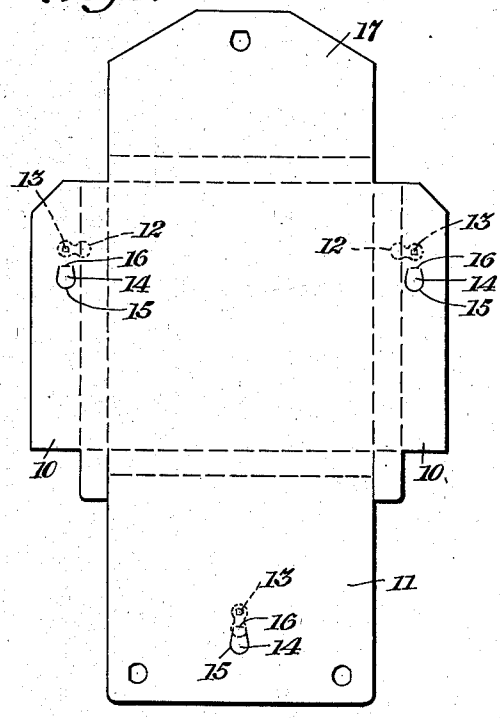


Fig:2.

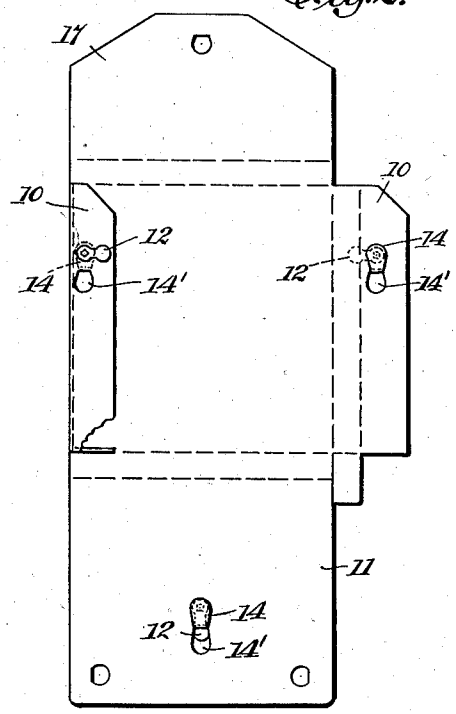


Fig:3.

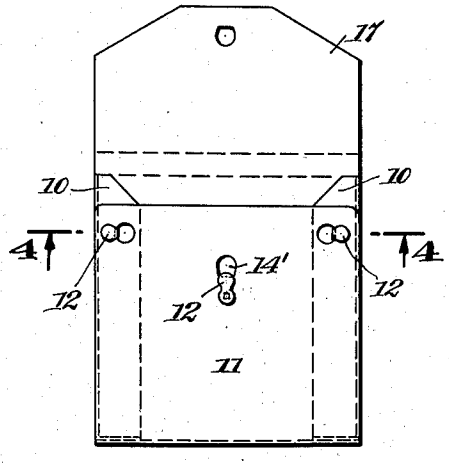
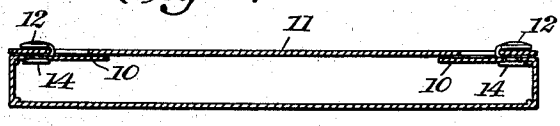


Fig:4.



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UNITED STATES PATENT OFFICE

2,159,737

CARTON

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Application March 30, 1938, Serial No. 198,940

3 Claims. (Cl. 229—16)

My invention relates to cartons.

The object of my invention is to provide a carton for use in shipping merchandise such as books, that will present no metal portion of the clips used in its construction, to contact with the merchandise inclosed therein.

A further object is to provide a carton of fiber-board that is shipped to the consumer in a flat condition and folded into carton form thereafter, the blanks being assembled in packages in which said blanks lie in superimposed relation, and each blank having tabs which lie in a plane with the surface of the blank so that the thickness of the package is not increased by reason of their presence.

A further object is to provide a carton of the character described having tabs formed integral and adapted to be bent to overlie the prongs of the clip fastening means to prevent said prongs from coming into contact with the contents of the carton when filled with merchandise, such as a book.

A further object is to locate said tabs in such positions that the openings formed in the blank in making the tabs, will be covered by an outer flap of the carton when the carton is closed.

Referring to the drawing which forms a part of the specification:

Fig. 1 is a view of the inner side of a blank and discloses the prongs of the clips used for securing the flap portions in position in the usual manner, and also shows a tab located adjacent each of said clips as they appear prior to being folded over the prongs.

Fig. 2 is a view illustrating the position of the tabs after they have been folded to overlie the prongs.

Fig. 3 is an elevational front side view of the carton as it appears just prior to folding the outer flap cover portion into closed position.

Fig. 4 is a cross sectional view on line 4—4 of Fig. 3 showing the tabs overlying the prongs, and the clips bent into locking positions.

In erecting the carton the blank is folded on the dotted lines in the usual manner and the flap portions 10—10— and 11— respectively are provided with metal clips 12—12—12— respectively, the prongs 13— of which extend thru the wall of the blank and are bent toward each other in clamping relation with the blank, as illustrated at the corners in Fig. 4.

The prongs extend outwardly from the surface of the blank to some extent, and coming into contact with a smooth surface such as the cover of a book, act to scratch or indent such surfaces which have been in contact during shipping.

The present construction entirely eliminates this trouble by providing a tab 14— which is formed from the blank by a slitting operation to form a horse-shoe shaped slit 15— adjacent the prongs 13—, thus leaving a narrow portion 16— which may be bent as a hinge and permit the tab to extend therefrom over the exposed prongs and completely cover them, this operation being performed at the time the carton is packed or filled with merchandise.

It will be observed that the blanks do not require any more space in packaging them for shipment to a consumer than heretofore when the tabs were not present, and if desired the carton may be used without removing the tabs from their blank position, as will be readily understood.

It will be noted that the tabs are formed from material intermediate the margins of the respective flaps so that the outer edges thereof remain unbroken, and that when the carton is erected and the outer flap portion 17— is connected with the lower front portion 11— the openings 14'— will be covered and concealed from view.

Having thus described my invention I claim as new:

1. A carton blank formed with a flap portion, a clip having prongs which extend thru and are clinched to the inner wall thereof, a tab cut from the flap material adjacent said prongs and having a hinge formed integral with the flap and normally lying within the plane of said flap and adapted to be swung and extended over said prongs in disconnected relation with said flap when the blank is folded into a carton form.

2. A carton of the character described formed from a blank comprising inner flap portions and adapted to be shipped in flat condition, metal clips on each of said inner flaps having prongs which extend thru and are clinched on the respective walls thereof, and tabs cut from the material of said flaps and formed to provide hinges integral therewith on which said tabs are free to swing and rest in detached overlying relation to said prongs.

3. The construction defined in claim 2, together with, said tabs being formed within the margins of the flaps.

HERMAN L. GREVE.