

May 12, 1931.

W. E. MOLINS

1,805,371

CARTON OR LIKE CONTAINER FOR CIGARETTES AND THE LIKE

Filed April 5, 1928

2 Sheets-Sheet 1

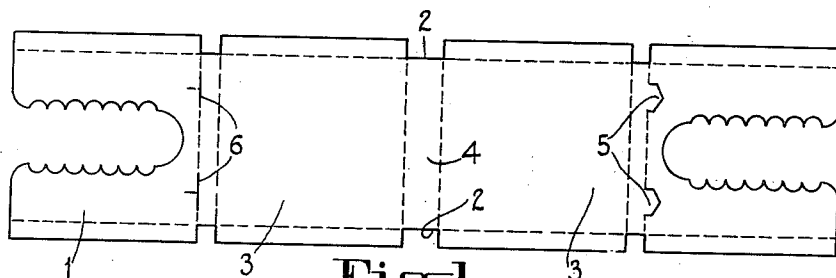


Fig. 1.

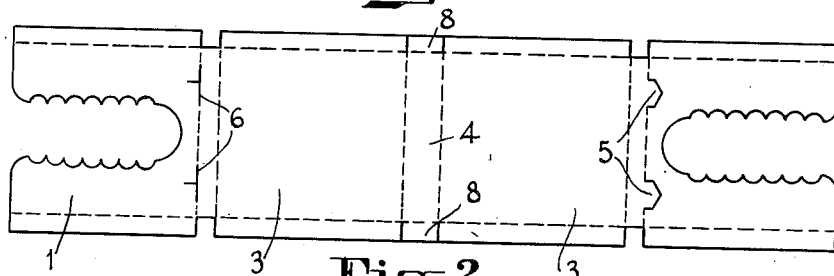


Fig. 2.

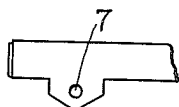


Fig. 5.

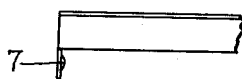


Fig. 6.

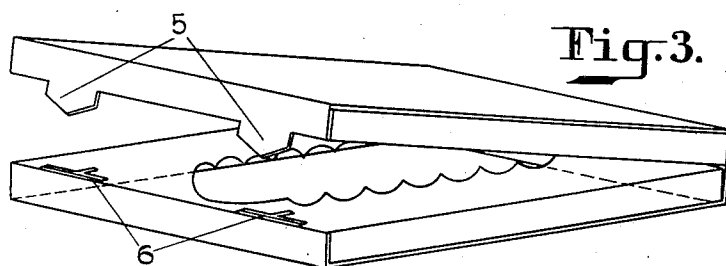


Fig. 3.

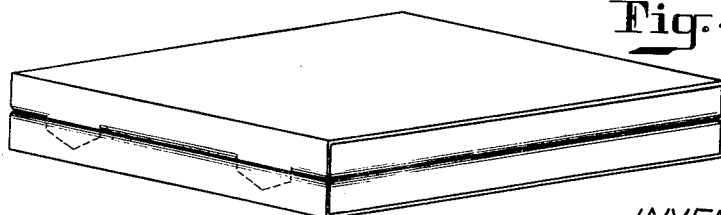


Fig. 4.

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2 Sheets-Sheet 2

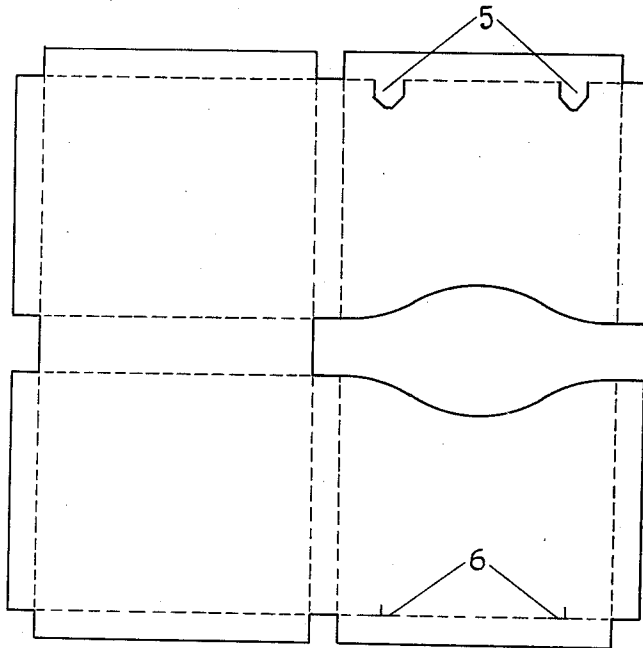


Fig. 7.

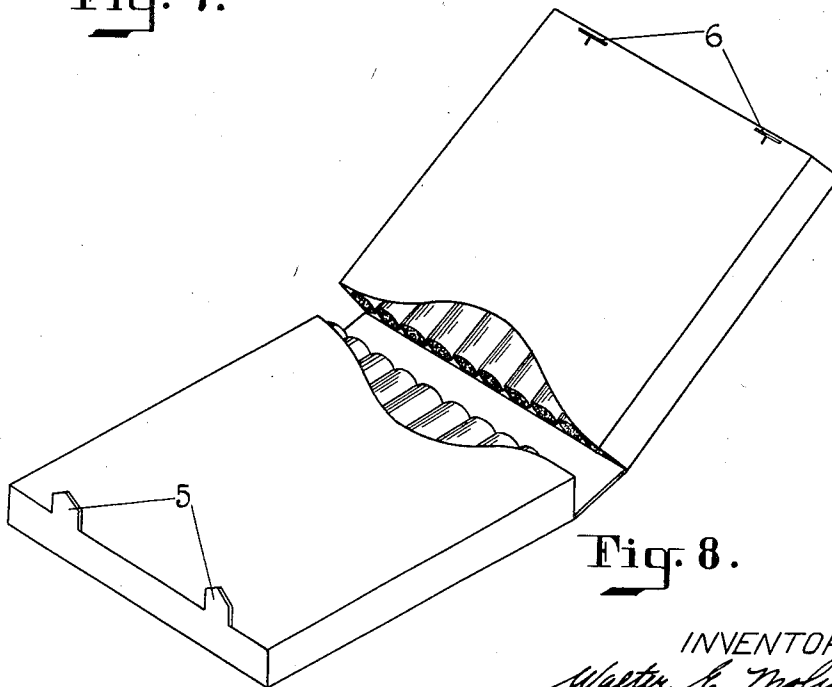


Fig. 8.

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UNITED STATES PATENT OFFICE

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CARTON OR LIKE CONTAINER FOR CIGARETTES AND THE LIKE

Application filed April 5, 1928, Serial No. 267,775, and in Great Britain April 22, 1927.

This invention is for improvements in or relating to cartons for cigarettes or similarly shaped articles and relates more particularly to a carton of the type which comprises two pockets hinged together by a flap, so that the open ends of the same are directed towards one another when the carton is in an extended condition and which permits the respective pockets to be folded one upon the other so that the said flap constitutes a closure means extending across the open ends of the two pockets.

The present invention consists of a carton for cigarettes or similarly shaped articles of the type referred to wherein a tongue or tongues formed upon one of the said pockets (preferably at the free end thereof) is or are arranged to extend at right angles to that broad side of the said pocket which bears against the other pocket when the two pockets are folded one upon the other, and a T or like slot or slots formed in the corresponding broad face of the other pocket arranged to receive the said tongue or tongues substantially as and for the purpose hereinafter set forth.

The invention is more particularly described with reference to the accompanying drawings, in which:—

Fig. 1 shows a carton blank shaped according to the present invention.

Fig. 2 shows a modified form of the blank illustrated in Fig. 1.

Fig. 3 is a perspective view of a slightly open packet constructed according to this invention.

Fig. 4 is a perspective view of a packet when completely closed.

Figs. 5 and 6 show front and side elevations of a modified form of locking tongue.

Fig. 7 illustrates the blank of a modified construction of carton, and

Fig. 8 is a perspective view of a carton formed from the blank illustrated in Fig. 7.

Referring to Figs. 1 to 6 of the drawings, a substantially rectangular strip of cardboard, strawboard or like material 1 provided at its mid-length with two cut-away portions 2 one on either side thereof of a depth equal to the thickness of the articles to be packed,

for example, in the case of cigarettes, the dimension of the said cut-away portion in a direction transverse to the length of the strip is equal to the diameter of one cigarette, and in a direction longitudinally thereto is equal to the diameter of two cigarettes. The said cut-away portions divide the strip into two rectangular sections 3 joined together by a central portion 4 hereinafter termed the "flap." Each of the rectangular sections is adapted to be folded about its mid-length so as to form a U shaped block ended pocket, the thickness of which is equal to the diameter of a cigarette.

The width of the rectangular strip depends upon the manner in which the cigarettes are packed in the pockets, for example, the type of carton illustrated in Figs. 1 to 6 corresponds to that illustrated and described in my co-pending application, Serial No. 220,165, wherein the width of the strip is equal to the length of a cigarette, plus twice the diameter thereof.

Prior to each of the rectangular sections being converted into a U shaped block ended pocket, one of the said strips is cut-away at a point adjacent to the mid-length thereof so that when the strip is formed into a U shaped block ended pocket, two tapered tongues 5 are arranged to lie flush with the end of the pocket and extend at right angles beyond that broad face of the said pocket which bears against the other pocket when the two pockets are folded one upon the other.

Prior to the second section being converted into a U shaped block ended pocket, the same is provided with two T slots 6 adjacent to the mid-length thereof and arranged so that the cross piece of the T's is cut along the edge of the bottom of the pocket and the vertical stem of the T is cut along the corresponding broad face of the second pocket and the slit portions of the pocket are pressed inwardly so as to form depressions upon the corresponding broad face of the pocket.

The position of the tongues on the first pocket and the depressions on the second pocket are arranged so that when the first pocket is folded upon the second pocket the tapered ends of the tongues formed on the

first pocket engage with the depressions in the second pocket, whereafter the enlarged portion of each tongue enters the ends of the slit which form the cross piece of the T and is securely held by the friction exerted between the tongue and the edges of the slit.

Preferably each tongue is provided with a scoring or point impression 7, Figs. 5 and 6, which forms a raised portion upon the tongue which acts in conjunction with the T slot to form an efficient locking device.

Further, in order to increase the rigidity of the tongues, the same may be stiffened with any desired material, for example gum, which may be applied as the pockets are being formed.

Fig. 2 shows a modified form of blank in which the end pieces 8 of the central flap are not cut away, but are slit so that they may be folded over on to the main part of the flap and gummed thereto.

This considerably increases the rigidity of the hinge and renders the locking tongues more effective.

It will be understood that variations in the shape, number and disposition of the tongues may be made without departing from the principle of the invention.

Further, the present invention is not limited to the blank illustrated in Figs. 1 or 2, but may comprise a blank of the shape illustrated in Fig. 7.

Further, the pockets may be arranged so that the cigarettes are disposed at right angles to the open ends thereof in the manner illustrated in Fig. 8.

Thus it will be seen that according to the present invention there is provided a double pocket container of the type hereinbefore set forth, wherein the pockets may be easily locked together and form a neat and composite container without the possibility of articles becoming inserted between the pockets and destroying the carton when the same is carried loosely in one of the larger pockets of a person's wearing apparel.

What I claim as my invention and desire to secure by Letters Patent is:—

1. A container having a pair of pockets hingedly connected at one end thereof, whereby the pockets may be closed by folding one upon the other so that the opposing faces engage, one of said pockets being provided with a slot in the opposing face thereof, and the other pocket being provided with a co-operating tongue extending toward the opposing face of the other pocket as the pockets are moved to closing position, whereby the tongue automatically enters the said slot during such movement and is frictionally retained therein to hold the pockets in closed relationship.

2. A container having a pair of pockets hingedly connected at one end thereof, whereby the pockets may be closed by fold-

ing one upon the other so that the opposing faces engage, one of said pockets being provided with a T-shaped slot in the opposing face thereof, and the other pocket being provided with a co-operating tongue extending toward the opposing face of the other pocket as the pockets are moved to closing position, whereby the tongue automatically enters the head of the T-shaped slot during such movement and is frictionally retained therein to hold the pockets in closed relationship.

3. A container having a pair of pockets hingedly connected at one end thereof, whereby the pockets may be closed by folding one upon the other so that the opposing faces engage, one of said pockets being provided with a slot at the intersection of the opposing face and the end of the pocket, and the other pocket being provided with an integral tongue comprising an extension of the end face thereof, whereby the tongue automatically enters the said slot during such movement and is frictionally retained therein to hold the pockets in closed relationship.

4. A container having a pair of pockets hingedly connected at one end thereof, whereby the pockets may be closed by folding one upon the other so that the opposing faces engage, one of said pockets being provided with a slot at the intersection of the opposing face and the end of the pocket and with a slot in the opposing face intersecting the first mentioned slot at right angles adjacent the midpoint of the latter, and the other pocket being provided with an integral tongue comprising an extension of the end face thereof, whereby the tongue automatically enters the first mentioned slot during such movement and is frictionally retained therein to hold the pockets in closed relationship.

5. A blank of fibrous material for forming a container having a pair of pockets hingedly connected at one end thereof, whereby the pockets may be closed by folding one upon the other so that the opposing faces engage, said blank comprising a pair of substantially rectangular portions for forming the faces, sides and one end of each pocket and having a centrally disposed portion connecting the rectangular portions to form a hinge, one of said portions being provided with a straight slot and the other of said portions being provided with a circuitous slot having the ends thereof terminating in a straight line parallel to the hinge forming portion, whereby the blank may be bent on the said straight line to form one end of the corresponding pocket having integral tongues projecting therefrom for co-operation with the straight slot in the other pocket.

In testimony whereof I hereunto affix my signature.

WALTER EVERETT MOLINS.