

Sept. 6, 1938.

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2,129,198

SHIPPING CARTON FOR MOTION PICTURE FILM

Filed Dec. 19, 1936

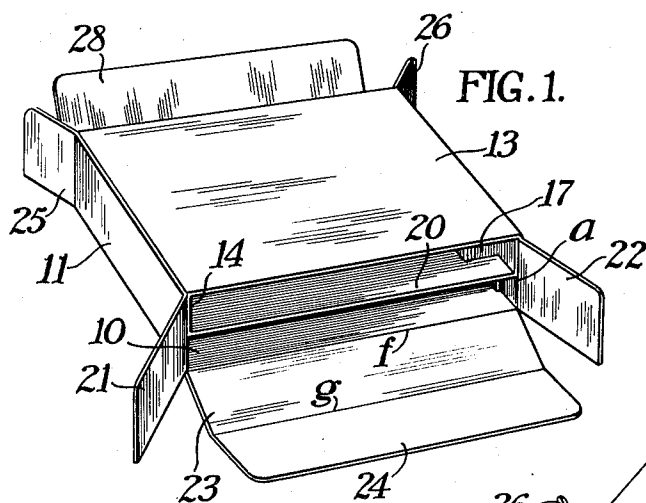


FIG. 2.

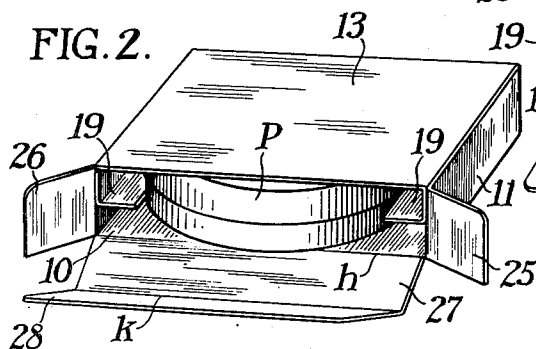


FIG. 3.

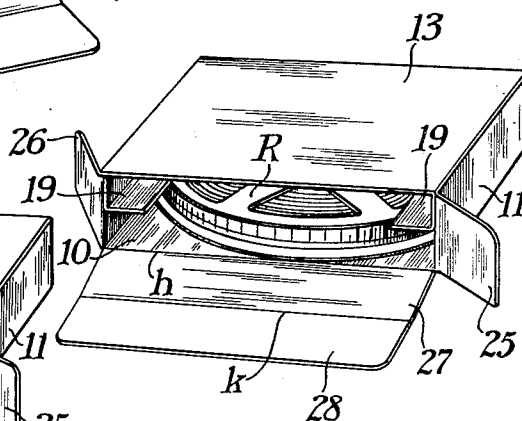
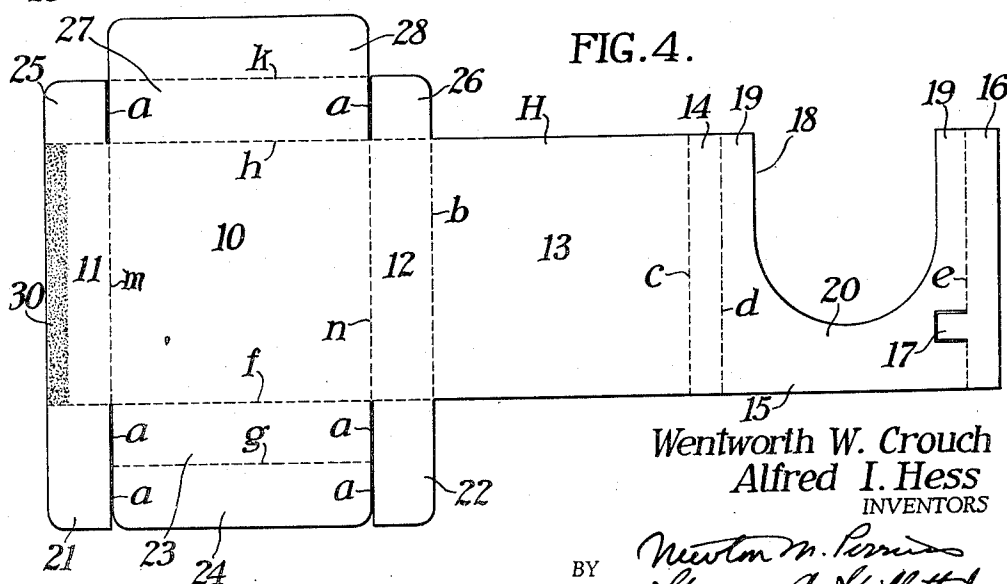


FIG. 4.



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2,129,193

SHIPPING CARTON FOR MOTION PICTURE FILM

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Application December 19, 1936, Serial No. 116,776

8 Claims. (Cl. 206—52)

This invention relates to packaging, and particularly to a collapsible shipping carton which is adapted to receive articles of different sizes in such a way that they are supported against shifting within the carton.

Users of 8 mm. motion picture film receive the unexposed film in 16 mm. widths, commonly known as 16 mm. film, and after exposing the same, send it back to the manufacturer for processing. After processing the film strip is split lengthwise, so that a film strip half the width and twice the length has to be returned to the owner. The unexposed film as it goes on the market is placed in small metal containers, known as "pill boxes", which are of a size to accommodate a film 16 mm. in width and twenty-five feet long. These "pill boxes" are placed in shipping cartons which are suitably marked so that the user, after exposing the film, can return the "pill box" and its film to the manufacturer for processing. After the film has been processed and split to 8 mm. size, it is wound on an 8 mm. reel which has a capacity of fifty feet, and is returned to the owner. Since the reel of processed film differs in width and diameter from the "pill box", it has been, up to the present time, found necessary to use separate shipping containers for the two, or to provide a shipping container wide enough to accommodate a fifty foot 8 mm. reel, and thick enough to accommodate the "pill box", wherewith corrugated pads, or the like were required to prevent the reel or "pill box" from shifting, in the carton during shipment.

Therefore, one object of our invention is to provide a shipping container which is adapted to receive articles of different widths and thickness and support the same against shifting therein.

Another object is to provide a carton of this type which is collapsible.

And still another object is to provide a carton of this type which is simple, inexpensive, and can be stamped from a single blank of material.

The novel features that we consider characteristic of our invention are set forth with particularity in the appended claims. The invention itself, however, both as to its organization and its method of operation, together with additional objects and advantages thereof, will best be understood from the following description of specific embodiments when read in connection with the accompanying drawing in which,

Fig. 1 is a perspective view of our novel carton in assembled condition, looking through the open bottom.

Fig. 2 is a perspective view of our novel shipping carton showing a "pill box" of 16 mm. film inserted therein,

Fig. 3 is a perspective view of the same carton

with a 50 ft. reel of 8 mm. film inserted therein, and

Fig. 4 is a plan view of a piece of cardboard which is cut and scored to produce a blank from which our novel carton is formed.

Like reference characters refer to corresponding parts throughout the drawing.

Referring now to Fig. 4, the blank H is made in a single piece by cutting or stamping it by a suitable die from paper stock, cardboard, or any other suitable material. Said blank has cuts or incisions *aa*; and is creased or scored, as indicated by the dotted lines. The blank consists of the rear wall 10 to the sides of which are foldably attached sections 11 and 12 which constitute the end walls in the assembled carton. Section 13 which has the same dimensions as section 10, constitutes the front wall of the carton when folded inwardly on the score line *b*, and is spaced from the rear wall by the end walls 11 and 12. Score lines *c* and *d* define a spacing member 14 which serves to space the partition 15 from the front wall 13 when the partition is folded inwardly theretowards. The other edge of the partition 15 is scored as at *e* to provide a second spacing member 16, equal in width to spacing member 14, which is adapted to be folded inwardly to engage the front wall 13 and assist the spacing member 14 to holding the partition 15 in spaced parallel relation with respect to the front wall. In order to provide a means for spacing the partition 15 from the rear wall 10 of the carton, tab 17 is cut from the partition 15. It will be noticed that the score line *e* does not extend across the tab 17, so that as the spacing member 16 is folded inwardly on said score line *e* the tab 17 will rotate rearwardly; and will, when the box is assembled, engage the rear wall 10 to space the partition 15 therefrom.

The dimension of the rear wall 10, the front wall 13, and the partition 15 are such as to provide a carton wide enough to receive a fifty foot reel R of 8 mm. film, as shown in Fig. 3. In order to accommodate a "pill box" P which has a thickness approximately twice that of the reel R, but whose diameter is considerably less since it contains but 25 feet of 16 mm. film, the partition 15 is cut out as shown at 18, said cut out portion 18 being wide enough and deep enough to allow the "pill box" to be slipped into the carton. The size of the cut out 18 is enough smaller than the partition 15 so as to leave supporting surfaces 19 on either side of the cut out 18, and a supporting surface 20 at the bottom thereof. Referring to Fig. 2, it can be observed that when the "pill box" P is in position in the carton it is supported against shifting in the carton by the edges of the partitions 19 and 20, while when the reel R is inserted in the carton, see Fig. 3, the faces of

the supporting surfaces 19 and 20 support it to prevent it from shifting in the carton.

The blank H is scored as at *f* and *g*, to provide tongues 21 and 22 which are adapted to fold toward one another when the carton is assembled to form a double bottom in conjunction with section 23 when the flap 24 is inserted behind the front wall 13, see Fig. 2. The score lines *h* and *k*, on the blank H, provide tongues 25 and 26 which are adapted to fold inwardly toward one another to be held down by section 27, which forms the top of the carton, when flap 28 is inserted behind the front wall 13.

The steps in assembling the shipping carton from the blank H will now be described. Starting at the extreme right hand side of the blank H, spacing member 16 is folded inwardly on line *e*, thus causing the tab 17 to be rotated rearwardly. The partition 15 is then folded on line *d* and spacing member 14 is folded on line *c* whereupon the partition 15 is brought into parallel relation with the front wall 13, being spaced therefrom by spacing members 14 and 16. The combined front wall 13 and the partition 15 is then folded on lines *b* and *n* whereupon the tab 17 will be brought into contact with the rear wall 10 adjacent the score line *n* and the partition 15 will be spaced from the rear wall 10 thereby, see Fig. 1. The end wall 11 is folded inwardly on line *m*, until it engages the outside face of spacing member 14, see Fig. 1 and the assembled carton is fastened at this point by means of glue or any other suitable fastening means. For purposes of illustration only, we have shown end wall 11 provided with a glued surface 30 which will contact the outside face of spacing member 14, and will only need moistening to effect the joining of the top parts. After the carton has been assembled as described, the bottom is closed by folding tongues 21 and 22 toward one another, and inserting flap 24 behind the front wall 13.

Referring now to Fig. 2 we have shown the "pill box" P inserted in the assembled carton for shipping purposes. It will be observed that the width of the "pill box" P is substantially the same as the thickness of the carton so that no lateral shifting of the "pill box" is involved. The "pill box" is prevented from shifting sideways or up and down in the carton by virtue of the edges of the supporting surfaces 19 and 20 on partition 15 which engage it at the sides and bottom. The top of the box is closed by folding tongues 25 and 26 inwardly after which the flap 28 is inserted behind the front wall 13.

The carton is made a width which is equal to diameter of the film reel R so that when the reel R is inserted in the carton, as shown in Fig. 3, no endwise movement of the reel is involved. Since the reel R is approximately only one-half as wide as the "pill box" P, the edges and bottom of the reel are supported between the faces of the supporting surfaces 19 and 20 of the partition 15 and either the front wall 13 or the rear wall 10 depending upon which side of the partition 15 the reel R is inserted into carton. Thus it will be understood that by providing the carton with a partition 15, constructed, as shown and described, a carton is provided into which articles of different dimensions may be inserted in such a way that they are each supported against shifting within the carton. Although we have described a carton wherein the partition 15 is definitely formed and spaced between the front and rear walls 13 and 10 so as to accommodate a "pill box" P and reel R, it will be readily understood that the form of

the partition 15 and the dimensions of the spacing members 14, 16 and 17 therefore can be varied to accommodate any number of different shaped and sized articles without deviating from the scope of our invention.

It will be readily understood from the above specification that a shipping carton constructed along the lines of the one described serves the same purpose as two separate cartons, thus proving itself to be very economical and convenient. And although the carton has been shown as being formed from a single blank of material, it is to be understood that the carton can be formed of any number of individual pieces without deviating from the spirit of our invention. It is also conceivable that the partition 15 instead of being integral with the carton, could be separate so as to be inserted in the assembled carton without going beyond the scope of our invention.

Although we have shown and described certain specific embodiments of our invention, we are aware that many modifications of the same are possible. Our invention, therefore, is not to be restricted except in so far as is necessitated by the prior art and by the spirit of the appended claims.

Having thus described our invention, what we declare is new and desire to secure by Letters Patent is:

1. A carton comprising front and rear walls, end walls holding said front and rear walls in spaced parallel relation, a bottom, a removable top for said carton hinged to one of said walls, a partition, having dimensions substantially the same as the front and rear walls, extending from end wall to end wall and being spaced intermediate the front and rear walls to divide the carton into two compartments, said partition provided with a cutout portion extending from the top edge thereof and being of a size whereby supporting surfaces are left at the edges and at the bottom of the partition which are adapted to alternatively support a single film container in the two compartments of the carton and a film holder in one compartment only.

2. A carton comprising front and rear walls, end walls spacing the front and rear walls from one another, flaps attached to the top and bottom of the rear walls, said flaps being scored so as to form the top and bottom walls of the carton when the ends thereof are inserted behind the front wall, a partition in the carton in spaced parallel relation with respect to the front and rear walls, and extending from one end wall to the other to divide the carton into two compartments, said partition provided with a cut out portion extending from the top edge thereof, the dimensions of said cut out portion being such that supporting surfaces remain at the side edges and bottom of the partition which are adapted to alternatively support a single film container in the two compartments of the carton and a film holder in one compartment only.

3. A collapsible carton comprising front and rear walls, end walls spacing the front and rear walls from one another and attached thereto, flaps attached to the top and bottom of the rear wall, said flaps being scored so as to form the top and bottom of the carton when the ends thereof are inserted behind the front wall, a partition attached to one edge of and spaced from the front wall by a spacing wall, the width of said spacing wall being less than the width of the end wall whereby the partition is located in parallel spaced relation with respect to the front and rear

walls of the carton to form two compartments therein, said partition having a cut out portion extending from its upper edge, the dimension of said cut out portion being such that supporting surfaces remain at the sides and bottom of the partition which are adapted to alternatively support a single film container in the two compartments of the carton and a film holder in one compartment only.

4. A collapsible carton formed from a single blank comprising a rear wall, end walls attached to said rear wall, a front wall attached to one of said end walls and adapted to be spaced from the rear wall by said end walls, a pair of flaps attached to the top and bottom edges of the rear wall, said flaps being scored so as to form the top and bottom of the carton when the ends thereof are inserted behind the top and bottom edges of the front wall, a spacing member foldably attached to one edge of the front wall and being of a width less than that of the end walls, a partition foldably attached to the spacing member and adapted to be located between the front and rear walls of the carton thereby, a second spacing member attached to the free edge of the partition and adapted to assist the first spacing member in locating the partition between the front and rear walls in parallel relation thereto to form two compartments in the carton, said partition having a cut out portion extending from its top edge, the dimensions of said cut out portion being such that supporting surfaces remain at the edges and bottom of said partition which are adapted to alternatively support a single film container in the two compartments of the carton and a film holder in one compartment only.

5. A collapsible carton, formed from a single blank, comprising a rear wall, two end walls attached thereto, a front wall attached to one of said end walls and adapted to be spaced from the rear wall by both end walls when the carton is assembled, a pair of scored flaps attached to the top and bottom edge of the rear wall to form a top and bottom for the carton when the ends thereof are inserted behind the top and bottom edges of the front wall, a spacing member foldably attached to one edge of the front wall and being of a width less than that of the end walls, a partition foldably attached to the spacing member and adapted to be positioned between the front and rear walls of the carton thereby, a second spacing member attached to the free edge of the partition adapted to engage the front wall when the partition is folded inwardly upon the front wall whereby the partition is spaced from the front wall thereby, spacing means integral with the partition adapted to engage the rear wall of the carton to space the partition therefrom to form two compartments in the carton, said partition provided with a cut out portion extending from the top edge thereof, the dimensions of said cut out portion being such that supporting surfaces remain at the edges and bottom of the partition which are adapted to alternatively support a single film container in the two compartments of the carton and a film holder in one compartment only.

6. A collapsible carton, formed from a single blank, comprising a rear wall, two end walls attached thereto, a front wall attached to one of said end walls and adapted to be spaced from the rear wall by both end walls when the carton is assembled, a pair of scored flaps attached to the top and bottom edges of the rear wall to form a top and bottom for the carton when the ends

thereof are inserted behind the top and bottom edges of the front wall, a spacing member foldably attached to one edge of the front wall and being of a width less than that of the end walls, a partition foldably attached to the spacing member and adapted to be positioned between the front and rear walls of the carton thereby, a second spacing member attached to the free edge of the partition adapted to engage the front wall when the partition is folded inwardly upon the front wall whereby the partition is spaced from the front wall thereby, a tab cut from the partition but left attached to the second spacing member whereby the tab is swung to engage the rear wall of the container when the carton is assembled to space the partition therefrom to form two compartments in the carton, said partition provided with a cut out portion extending from the top edge thereof, the dimensions of said cut out portion being such that supporting surfaces remain at the edges and bottom of the partition which are adapted to alternatively support a single film container in the two compartments of the carton and a film holder in one compartment only.

7. A film shipping carton adapted to receive a "pill box" or a return reel of film having different dimensions, comprising a front wall, a rear wall, two end walls spacing the front and rear walls in parallel relation to receive the "pill box," scored flaps foldably attached to the top and bottom of one of said walls for forming the top and bottom of the carton, a partition in said carton spaced from the front and rear walls thereof and adapted to divide the interior of the carton into two compartments each of which is of a size to receive the return reel, said partition provided with a cut out portion extending from the top edge thereof for receiving the "pill box," the dimension of said cut out portion being such that supporting surfaces remain at the edges and bottom of the partition which are adapted to alternatively support the return reel in one compartment and the "pill box" in both compartments.

8. A film shipping carton adapted to receive and support either a "pill box" or a return reel of film having different dimensions, comprising a rear wall, two end walls attached thereto, a front wall attached to one of said end walls and adapted to be spaced from the rear wall by both end walls when the carton is assembled, a pair of scored flaps attached to the top and bottom edges of the rear wall to form a top and bottom for the carton when the ends thereof are inserted behind the top and bottom edges of the front wall, a spacing member attached at one edge to the front wall and being of a width equal to that of the return reel but less than the width of the end wall, a partition attached at one side edge to the spacing member, and adapted to be positioned between the front and rear walls thereby, a second spacing member attached to the free side edge of the partition adapted to engage the front wall when the partition is folded inwardly upon the front wall whereby the partition is spaced from the front wall thereby, said partition provided with a cut out portion extending from the top edge thereof for receiving the "pill box," the dimensions of said cut out portion being such that supporting surfaces remain at the edges and bottom of the partition for supporting the "pill box" or the return reel.

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