

Sept. 8, 1936.

H. J. NELSON

2,053,529

OPENABLE PACKAGE AND METHOD OF MAKING THE SAME

Filed Oct. 19, 1934

2 Sheets-Sheet 1

FIG. 1.

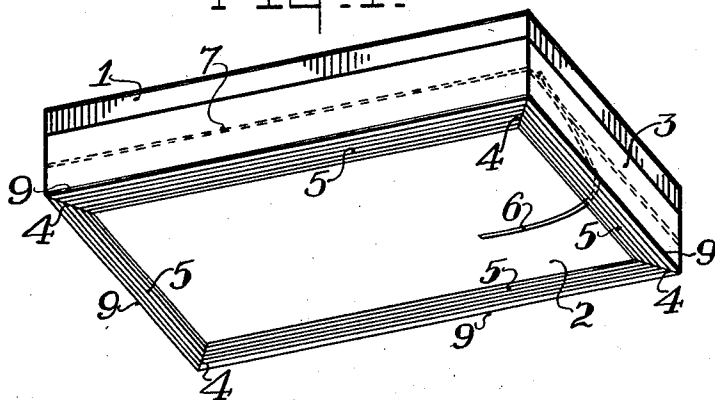
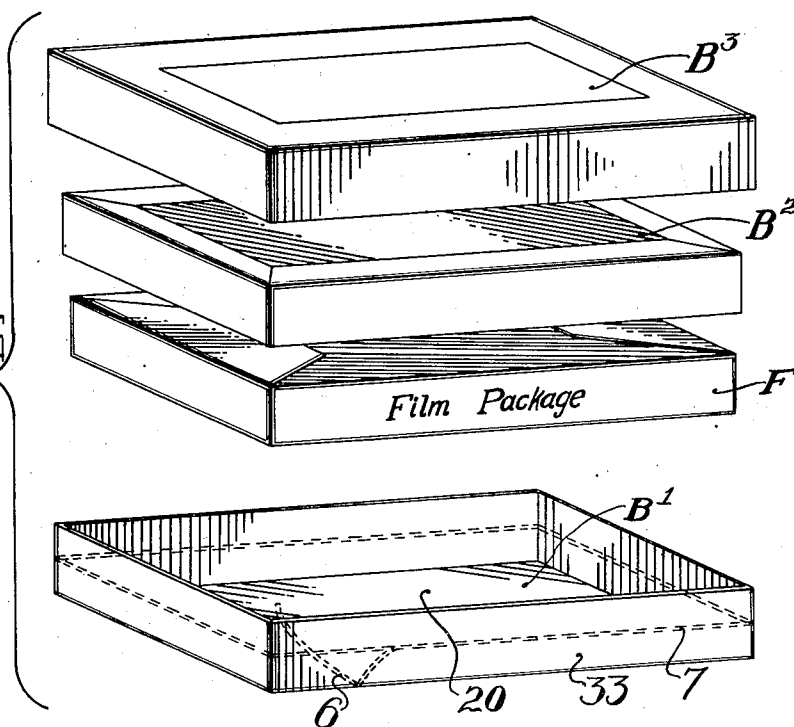


FIG. 2.



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FIG. 3.

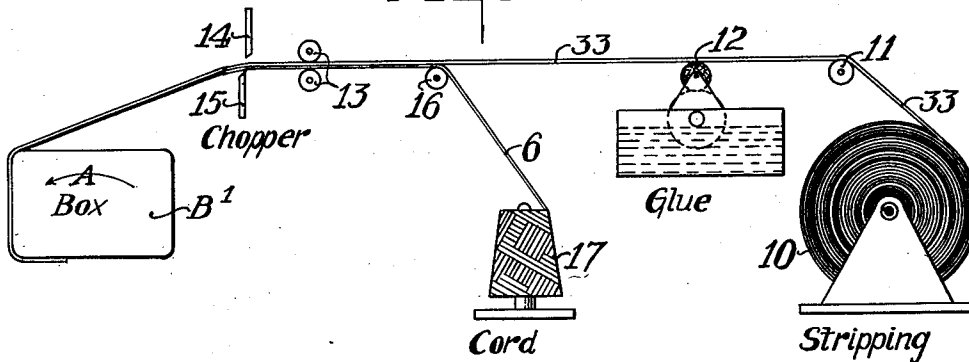


FIG. 4.

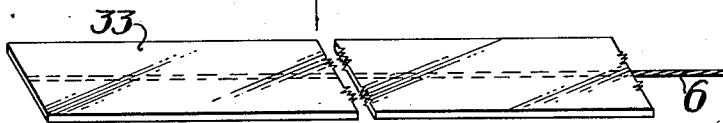


FIG. 5.

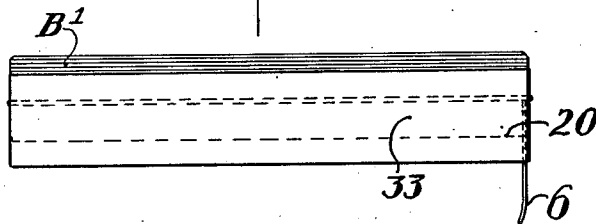
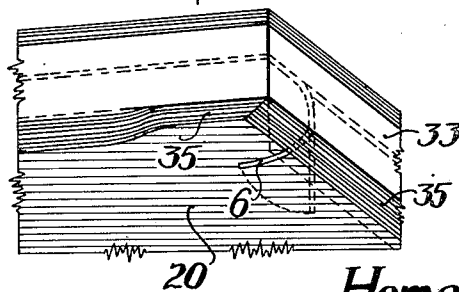


FIG. 6.



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UNITED STATES PATENT OFFICE

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OPENABLE PACKAGE AND METHOD OF
MAKING THE SAME

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2 Claims. (Cl. 229—51)

This invention relates to a readily openable package and a method of making the same.

One object of my invention is to provide a package with a rip-cord which can be readily opened. Another object of my invention is to provide a package composed of several sections, one of which is equipped with a rip-cord so that these sections can be assembled later and the rip-cord will be in the proper position for use. Another object of my invention is to provide a package composed of several sections, one of which is provided with a rip-cord which does not project from the package and consequently facilitates the proper loading and assembling of the several parts forming the package, and other objects will appear from the following specification, the novel features being particularly pointed out in the claims at the end thereof.

Coming now to the drawings, wherein like reference characters denote like parts throughout:

Fig. 1 is a perspective view of a completed film package including a rip-strip constructed in accordance with and embodying a preferred form of my invention.

Fig. 2 is a view of a preferred form of package showing the various elements which telescope together to form the completed package and omitting the final stripping by which the various parts are held in assembled relation.

Fig. 3 is a schematic view showing a preferred method of assembling parts of a package constructed in accordance with my invention.

Fig. 4 is a perspective view of a piece of stripping material which is placed on one of the package elements.

Fig. 5 is a side elevation of the parts shown in Fig. 2 assembled together, but with the final operation of stripping the boxes together still uncompleted.

Fig. 6 is a perspective view of the corner of a package in which the stripping has been partially completed.

It is customary to pack photographic films in two or three boxes and to strip these boxes together to make a light-tight and substantially moistureproof package. Since photographic films can only be opened in a dark room, it is difficult to separate the box sections forming the film package without at least starting to open the package in the light.

It is, of course, obvious that there are many other articles which can advantageously be placed in a package which can readily be opened, but since my invention is particularly adapted for

use with photographic films, I have so described it.

In accordance with Fig. 1, a completed package is shown as consisting broadly of an outside cover box 1 and an inside telescoping box section 2. These two boxes are stripped together by means of a piece of adhesive stripping 3 which extends around the entire periphery of the box and which is folded at the corners 4 so that a part of the strip 5 can be pasted over against the bottom of the telescoping box section 2. This is a well known means of fastening telescoping boxes together.

However, in accordance with my invention I provide a rip-cord, the end of which 6 is positioned against the bottom of the box 2 and this end is preferably lightly attached to the box by means of adhesive. This attachment, however, is so light that the rip-cord can easily be raised from the box by the fingernails of an operator and it can be readily felt in a dark room. This rip-cord 6, as is shown in Fig. 1, passes beneath the stripping material 3 and passes entirely around the box, preferably as indicated at 7 around the central portion of the box periphery. The location of this rip-cord is not highly material and it may be placed closer to either the top or the bottom of the box. I have found that it is preferable to place the rip-cord as shown in Fig. 1 because by doing this, an improved method of making a package can be accomplished.

Referring now to Fig. 3, the box here designated broadly as B1 may be equipped with the stripping shown in Fig. 4 in the following manner. The stripping material 33 is drawn from a roll 10 over a guide roller 11 past a gluing roller 12 and between guide rollers 13 and the knives 14 and 15 to the box which is held in the hands of an operator. After the stripping 33 passes over the glue roll 12, it passes over a guide roll 16 over which a rip-cord 6 passes, this rip-cord being drawn from a supply 17. The cord passes with the stripping 33 and is lightly attached to the underside of it by the freshly applied glue. The operator turns the box B1 in the direction shown by the arrow A and wraps the stripping about the periphery thereof with the rip-cord 6 underneath, that is, with the rip-cord lying against the periphery of the box.

When the stripping 33 has been pasted entirely around the box, the knives 14 and 15 are brought together cutting off the stripping and rip-cord. The operator then tears off the end of the stripping material so that the rip-cord 6 projects from the end, as shown in Fig. 4.

When the box has been completely stripped around the periphery, as shown in Fig. 5, the end of the cord and the stripping material 33 project down below the bottom 20 of the box B1, as shown in Fig. 5. The operator then folds that portion of the stripping which extends below the bottom 20 up against the bottom wall of the box B1, as indicated in Fig. 6, where the stripping 33 has been partially folded over at 35 against the bottom of the box. In performing this operation the operator quickly wipes down the end of the rip-cord 6 against the bottom of the box and since this cord has been in contact with a portion of the gummed stripping which has been previously torn off, as above described, a slight amount of adhesive remains on the cord. Thus the cord will lie flat against the box, as indicated in Fig. 6.

With the box B1 equipped with this stripping and with the rip-cord, the completed package can be assembled in the usual manner without in any way taking more time than is ordinarily necessary for assembling a package of this type.

Thus, if the package should be similar to a package in common use for shipping photographic films, the films may be contained in the package F, shown in Fig. 2, and this package may be placed in the box B2. After being placed in box B2, this box with the film package is telescoped in the box B1, which, as above described, has already been provided with the rip-cord. The box B1 is then telescoped into the box B3 which forms the cover box, and then these parts may all be assembled by placing on a second piece of stripping 3, as indicated in Fig. 1, and folding the lower edge of this stripping over the bottom 20 of the box B1 to hold the parts in completely assembled position.

As above explained, the end 6 of the rip-cord was lightly attached to the bottom 20 of the box B1 by means of adhesive, so that the last stripping operation is performed without the necessity of positioning the rip-cord at all.

Moreover, when the parts have been assembled into a complete package, it is a simple matter to locate the end of the rip-strip 6 to open the package. This rip-strip may be pulled so as to tear through the corners 9 of the stripping 3 which has been folded over at 5 to hold the package sections together. By pulling out on the rip-cord 6, that portion of the cord 7 which lies around the periphery of the box B1 will pull down between the sides of the boxes B1 and B3, causing the stripping to tear out and permitting the box B3 to be removed from the box B1 very easily.

While I have shown my rip-strip 7 extending around the entire periphery of the box B1, it is quite obviously a simple matter to extend this stripping a less distance if desired. For instance, if it should be desirable to have a box composed of two sections hinged along one side, the rip-strip

should be placed around only the remaining three sides so that the fourth side will remain covered by the stripping which may be of material of sufficient strength to form a hinge.

Ordinarily, it has been quite difficult to apply a rip-strip to a multiple section box because of the difficulty of properly locating the rip-strip and at the same time permitting a rip-strip to be attached in a proper location without a separate operation and without too great expense. As will be obvious from the above description, I have provided a method which adds only very slightly to the cost of a box, since an operator can add the rip-strip with the usual stripping with only very slight additional time for the operation. Moreover, after the rip-strip has been applied, it is not only properly located with respect to the various boxes forming the package, but it also lies flat against the box to which it has been attached so that it does not interfere with the future operations of loading the box.

This is particularly important in loading photographic film because such film is always loaded in a dark room. Some films, such as Panchromatic, must be loaded in total darkness and it is therefore necessary to have the loading operation a simple one. If there should be a loose or free end of a cord used for a rip-strip, it would be difficult, if not impossible, to properly place such a cord in assembling the package in total darkness. When the rip-cord is definitely located by a light gluing on the bottom of the box, this difficulty is overcome and the box sections can be handled quite as freely as when the rip-strip is not present.

What I claim as new and desire to secure by Letters Patent of the United States is:

1. In a package comprising, in combination, two telescoping boxes including an inner box and an outer box, a strip attached solely to said inner box, a rip-cord attached to the inner box beneath said strip and having an end projecting to one side of the strip, said outer box being separately stripped to the inner box with said cord end projecting outside of the stripping, whereby the stripping holding the boxes together may be readily separated.

2. A package adapted to be filled comprising, in combination, an inner box and an outer box, a strip attached to said inner box only about its periphery, a rip-cord fastened to the periphery of said box by said strip and having an end projecting a distance from said strip, said outer box being adapted to receive the inner box in telescoping relation, said rip-cord end projecting from said strip a distance sufficient to extend out between the two assembled boxes, whereby a separate strip may be applied to hold the boxes together to only partially cover said rip-cord end.

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