Feb. 24, 1942. G. E. SANDERS 2,274,278

PACKAGE

Filed Aug. 31, 1938 2 Sheets-Sheet 1

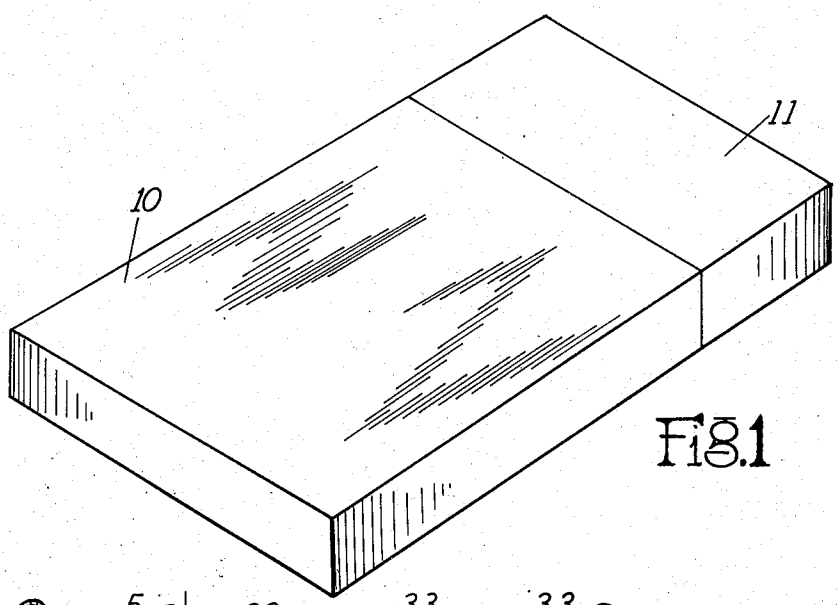


Fig. 1

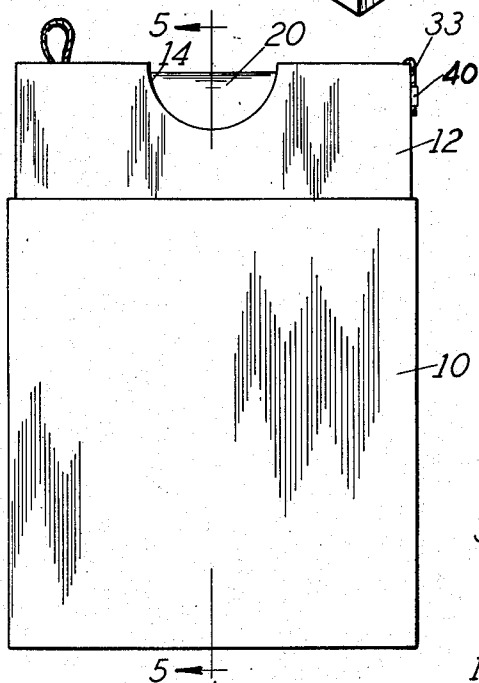


Fig. 2

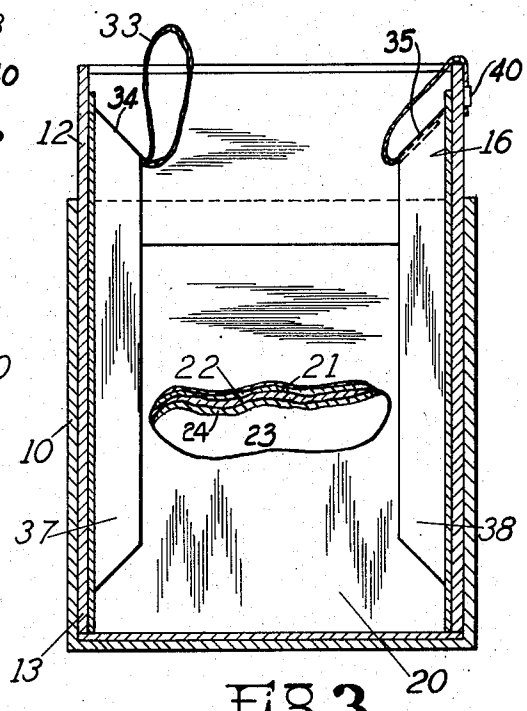


Fig. 3

INVENTOR.
George E. Sanders.

BY Philip S. Hopkins

ATTORNEY.

Feb. 24, 1942. G. E. SANDERS 2,274,278

PACKAGE

Filed Aug. 31, 1938 2 Sheets-Sheet 2

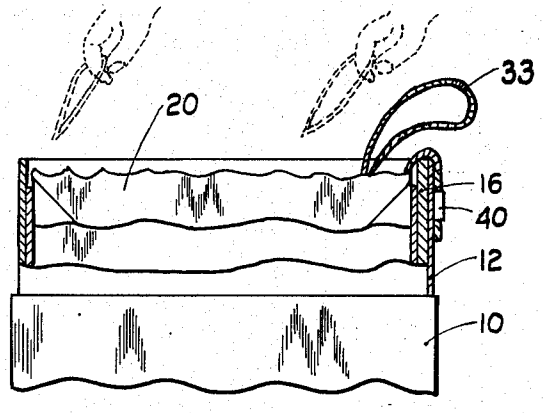


Fig. 4

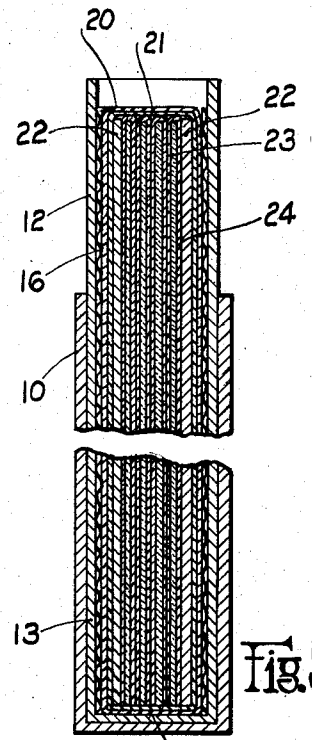


Fig. 5

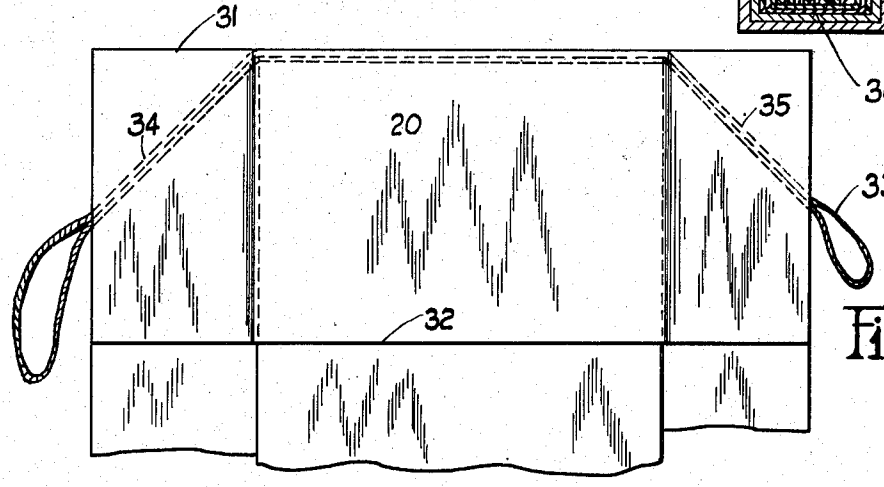


Fig. 6

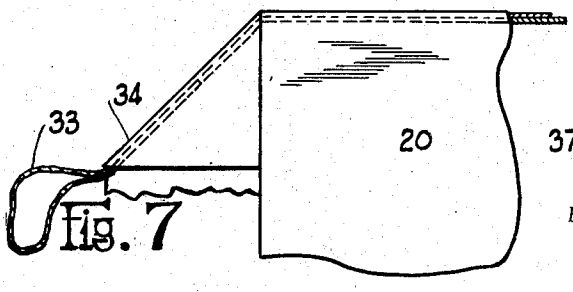


Fig. 7

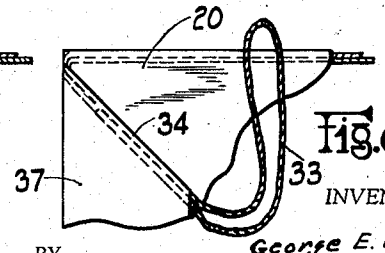


Fig. 8

INVENTOR.
George E. Sanders
BY
Philip S. Hopkins.
ATTORNEY.

Patented Feb. 24, 1942 2,274,278

UNITED STATES PATENT OFFICE

2,274,278

PACKAGE

George E. Sanders, Binghamton, N. Y., assignor, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

Application August 13, 1938, Serial No. 224,769

2 Claims. (Cl. 206—62)

This invention relates to a package and more particularly to a package adapted to contain a plurality of wrapped articles.

A primary object of this invention is the provision of an improved receptacle characterized particularly by a simplified opening means.

An additional object is the provision of such a container for articles such as film or other sheets wherein the same may be rapidly made available for use.

In the particular embodiment of this invention herein shown and described, the contents of the package are referred to as film sheets primarily because of the particular adaptation of the package for containing such sheets. It will, however, be understood that the package may equally advantageously contain sheets of any desired material to be utilized for any desired purpose.

An additional and more specific object is the provision of such a container wherein a few simple motions completely open the container and render the film sheets or plates readily accessible for insertion in a camera or other apparatus for use.

As conducive to a clearer understanding of this device, it may be pointed out that single film sheets or plates for use in a photographic apparatus must of necessity be packed and sealed against the ingress of light and that the opening of such packages has hitherto been a matter of relatively great complexity often resulting in the premature exposure of one or more films to light. An object of this invention is, therefore, to provide a film container which may be opened substantially instantaneously and with a minimum of operations on the part of the operator whereby a single film may be readily and simply made accessible for use as hereinafter described.

A further specific object resides in the provision of such a container which may be easily and quickly opened and the container subsequently reclosed to preclude the possibility of exposure to light of the film or other elements remaining therein.

Other objects will in part be obvious and in part be pointed out hereinafter.

The invention accordingly consists in the combination of elements, arrangements of parts and features of construction all as will be more fully pointed out hereinafter and disclosed in the accompanying drawings wherein:

Figure 1 is a perspective view of one form of container embodying the instant invention in closed position,

Figure 2 is a front elevational view of the exterior of the container having the outer cap or covering removed,

Figure 3 is a sectional view showing the assembly of the container, certain parts thereof being broken away,

Figure 4 is a diagrammatic view showing the method of opening the inner lining surrounding the film,

Figure 5 is a sectional view taken substantially along the line 5—5 of Figure 2, and

Figures 6, 7 and 8 are fragmentary views illustrating successive steps in the assembly of the inner wrapper immediately surrounding the film plates.

Having particular reference now to Figure 1 there is generally indicated at 10 an outer box or receptacle provided with a cap 11 adapted to slidably engage an extending flange 12 of an inner box 13 which extends to the bottom of box 10 and a substantial distance above the top thereof, the exterior dimension of flange 12 being substantially equal to the interior dimension of cap 11 whereby a substantially light tight outer receptacle is provided. Flange 12 is provided on opposite sides with a pair of oppositely disposed cutaway portions 14 to provide for a finger grip on the inner wrapping of the film in a manner to be described hereinafter.

Referring now to Figure 5, it will be seen that within box 13 is a layer of protective material such as corrugated cardboard 16 which covers the front and back sides of the inner film containing package. The film containing package itself is comprised of a wrapping of opaque paper 20 provided with an inner lining 21 comprised of black or relatively dark colored paper to preclude the ingress of light to the film contained therein. The method of folding the paper wrapping 20 and its associated lining 21 will be described more fully hereinafter.

Disposed on opposite sides of the several sheets of film and within paper wrapping 20 and lining 21 are reenforcing sheets of cardboard 22 which serve as additional reenforcement for the film to prevent possible creasing or bending thereof. Positioned between sheets of cardboard 22 are any desired number of sheets of film 23, each of which is contained in an individual folder of opaque paper or analogous material 24 in such manner that a single sheet may be removed from the package without rubbing or exposing any of the other sheets.

Having reference now to the method of assembly of the inner wrapper 20 and its associated lining sheet 21, reference is had to Figures 5, 6,

7 and 8. The film package, comprised of the plurality of sheets of film 23 each in its individual wrapper envelope 24 and the cardboard members 22, is first folded in the inner container comprised of wrapper 20 and liner 21, in such manner that the lower portion thereof is completely surrounded as at 30 (see Figure 5). One side of the surrounding wrappers extends upwardly, with respect to the film pack, a distance beyond the other side equal to the distance between the fold line 31 and the top of that side 32 plus the thickness of the film package (see Figure 6), and the outer side similarly extends upwardly from the bottom of the pack a substantial distance.

A string 33 is inserted beneath the wrapper 20 and liner 21 adjacent the film pack and angularly disposed adjacent the extremities thereof as at 34 and 35 and the inner wrapper and its liner folded down as indicated in Figure 6. As shown in Figure 7, the corners extending above the inner angularly disposed segments 34 and 35 of string 33 are folded downwardly along fold lines corresponding to the angular disposition thereof as shown in Figure 7. Subsequently the portions extending beyond the sides of the film package are bent inwardly, as indicated in Figure 8, taking the form best shown in Figure 3 to comprise overlapping folds 37 and 38. Folds 37 and 38 may if desired be secured to the body of the film pack or may simply be held in place by the close engagement of inner box 13 therewith.

Thus it will be seen that when the inner pack is in assembled relation, string 33 will assume the position shown in Figures 2 and 3, that is underlying both paper wrapping 20 and its opaque liner 21. One end of string 33 is secured in any desired manner as by adhesive means 40 to flange 12 whereby pulling on the other end thereof results in a relatively clean ripped aperture, across the top of inner container 20 and its liner 21 whereby one, or more, sheets of film 23 together with its associated envelope of opaque material may be removed from the package.

The operation should, from the foregoing, be readily understandable. The operator removes cap 11 from flange 12, pulls the free end of string 33 while in a dark room or under a photographer's curtain, removes one or more film plates from the package as required, inserts the film plate in a camera and replaces cap 11 upon flange 12.

Although in the foregoing the package of this invention is described as adapted for use with a plurality of sheets of film, for which it is particularly adapted, it is to be specifically understood that the package may be utilized with equal advantage in connection with any other desirable content in the form of sheets or other analogous shape.

Thus from the foregoing it will be seen that there is herein provided a structure which embodies all the objects of this invention and others including many advantages of great practical utility.

As many modifications may be made of the invention herein described and shown and as many embodiments may be made of this modification, it is to be understood that all matter hereinbefore set forth or shown in the accompanying drawings is to be interpreted merely as illustrative and not in a limiting sense.

I claim as my invention:

1. In a container for film, in combination, an outer receptacle having an open top, and an inner wrapper slidable therein, said inner wrapper comprising a flexible sheet of opaque material, first folded about the front and rear of said film, then having its upper corners angularly turned with respect to said film and then folded about the sides of said film, and a rip cord positioned along the upper edge of said wrapper beneath the fold lines of said upper edges and said upper corners and having both ends thereof extending outside said wrapper, one of said ends being anchored to said outer receptacle and preventing accidental withdrawal of said wrapper from said receptacle when the other end of said cord is pulled for opening said wrapper, said cord having no substantial tearing effect on said outer receptacle.

2. A package for light sensitive material including a relatively rigid outer container entirely open at one end, a relatively flexible inner container completely closed on all sides and slidably positioned within said outer container, one closed end of the inner container being closely adjacent the plane of the open end of the outer container, a plurality of sheets of light sensitive material in said inner container, and means for tearing open the end of the inner container located at said open end, said tearing means comprising a rip cord extending across and within only the said closed end of the inner container and having portions projecting exteriorly of said inner container at opposite sides of said closed end, one of said projecting portions being anchored directly and without substantial slack to the outer container closely adjacent the point at which said portion projects from the end of the inner container, said anchored portion preventing accidental withdrawal of the inner container from the outer container when the other projecting portion of said rip cord is pulled for opening said inner container.

GEORGE E. SANDERS.