Oct. 14, 1952 J. SCHINDLER 2,613,991

PACKAGING

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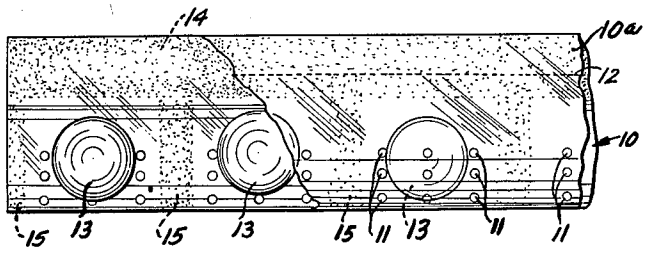


FIG. 1

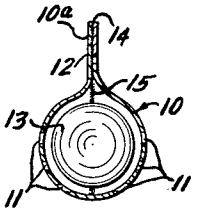


FIG. 2

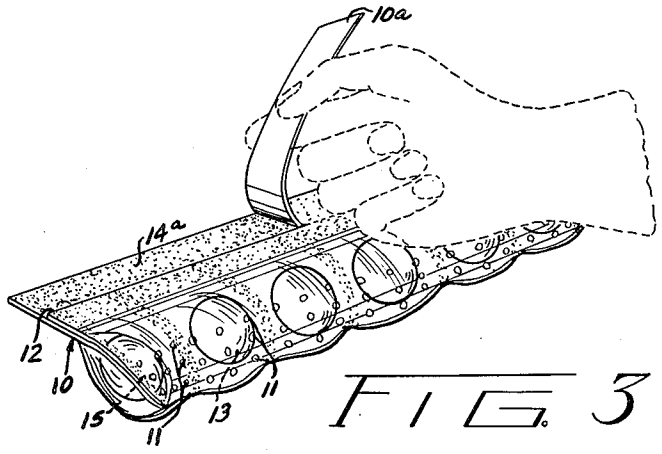


FIG. 3

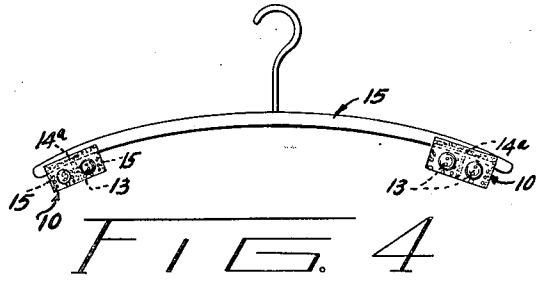


FIG. 4

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PACKAGING

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7 Claims. (Cl. 299—24)

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This invention relates to improvements in packaging chemicals, chemical compounds, volatile and non-volatile, absorbent materials and many others; in a form of package wherein the package and its contents are put in use without removing the contents from said package.

Another object of the invention is the provision of a package for materials of the characteristics described, wherein bodies of the material are enclosed in a perforate strip having portions of the opposite walls thereof adhered to enclose said bodies and other portions of the walls adhered to isolate said bodies from one another.

A further object of the invention is the provision of a package for materials wherein bodies or groups of bodies of material are spaced along the surface of a perforated flexible strip, one edge of the strip being folded over to and adhered to the surface of the strip adjacent to the opposite edge thereof, thereby embracing said bodies or groups of bodies, and a further feature of adhering opposite surfaces together between said bodies or groups for isolating the latter from one another.

Yet another object of the invention is the provision of a package formed of perforated strip means, wherein the perforations are of sufficient size for air to pass into and out of the package, said strip means having portions adhered together to isolate the articles packed therein from each other, and means to uncover an edge of said package carrying an adhesive of sufficient width and/or strength to support the package and contents on a suitable object.

Another object of the invention is the provision of a package in the form of an elongated strip formed of a flexible non-metallic material, said material having air communicating perforations therein, bodies or groups of articles spaced apart from each other along said strip, said strip being adhered together to enclose said bodies or groups and to isolate them from each other, said package having at least one longitudinal edge formed of overlapped portions of said material bordering the edges thereof, other tear perforations in one of said portions a predetermined distance from said edge, so that the material from said edge to said tear perforations may be torn off to uncover adhesive adjacent to its mating edge, thereby providing means for supporting the package in use on a suitable object.

Other objects and advantges of the invention will be apparent to those skilled in the art upon a study of this specification and the accompanying drawings.

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Referring to the drawings which are merely given by way of example to illustrate the invention:

Figure 1 is a side elevation of a portion, partly broken away, of a length of my new and improved package and contents;

Figure 2 is a sectional view taken along the center line of one of the articles of Figure 1;

Figure 3 is a perspective view showing a strip of the packaging material being removed from the package to uncover the adhesive on the portion of the package with which the removed strip mated so that said uncovered adhesive may be used to support the package on an object; and

Figure 4 shows short lengths of the package and contents adhered to and supported on a coat hanger.

Referring first to Figures 1 and 2, a strip of flexible non-metallic material 10 is provided with perforations 11 via which air may pass into and out of the package. The strip 10 also has a row of tear perforations 12 formed therein in spaced relation to one edge thereof. The articles to be packed may be of any form; however, in the example given, the articles are assumed to be mothballs 13. The mothballs are spaced apart from each other, and the strip 10 embraces these mothballs and the material of the package in a predetermined area adjacent to each edge are brought together and secured.

These may be secured together in many ways; however, I prefer to secure these edges together with a non-drying adhesive, such as is employed on cellophane tape, etc. now on the market.

An area of adhesive 14 of a predetermined width, which width is wider than the distance of the tear perforations 12 from the edge, is disposed on the material, this being the underneath edge as viewed in Figure 1. Areas of adhesive 15, which may be of the same type as adhesive 14, are disposed on the material between the articles 13 so as to isolate them from each other. This results in the edges being joined at 14 to enclose the mothballs 13, and the wall portions of the package between the articles 13 are joined together along the line 15 indicated in Figure 2, thereby producing an elongated package containing the spaced articles 13.

In use, a predetermined length of the package may be cut off lengthwise of any of the areas 15, and thereby a desired number of the articles for use is severed from the entire package. Now when the package or a portion thereof is to be put in use, the strip 10a is separated from the strip 10 along the perforations 12 in the manner

shown in Figure 3, thereby uncovering an area 14a of adhesive which area is used to support the package on any suitable object.

In the arrangement shown in Figure 4 the package has had two groups of two articles cut off from it, and the strip 10a has been removed, and the uncovered adhesive 14a has been adhered to the coat hanger 15, one pair of articles being supported near one end thereof and the other pair near the other end thereof.

Although the example given in the drawings shows the package as containing mothballs, it will be understood that my package may be used to contain balls, flakes, crystals, nuggets, pellets of naphthalene, para-dichlor-benzene or any other volatile chemicals or compounds. The package may contain materials suitable for use in toilets, water closets, or any other part of a toilet or bathroom. It may contain materials to be used in clothes hampers and the like. It may contain ant bait and other poisons for ants and insects or repellents for such, and due to the form of the package it may be placed out of the reach of children and/or pets. It may contain charcoal tablets to absorb odors in refrigerators or pellets or crystals to absorb moisture.

Recommended places of use are: adhering the package around doorways, along the edges of shelves, baseboards, to walls and doors. It readily adheres to hangers of wood, plastic or metal; it will adhere to clothing, carpets and inside clothing bags, whether they be made of plastic, cloth or paper. It may be also used in wardrobes, whether they be formed of wood, plastic or even in cedar chests. They may be attached to the bottoms of furniture, mohair, etc.

One important advantage of this form of packaging is that the contents of the package are never removed. Therefore, it is excluded from contact in any way with the hands, clothing or any other materials with which it is to be used. This makes it safe from the poison angle, safe from the possibility of staining materials, and I have found that it is one type of package that can be placed in use and promptly forgotten.

Although I have herein shown and described the invention in connection with the packaging of one type of material, it is obvious that many changes may be made in the arrangements herein shown and described within the scope of the following claims.

What is claimed is:

1. In a package, an elongated non-metallic casing having a plurality of articles spaced apart from each other therein, adhesive means provided in certain areas of said package, at least one longitudinal edge of said package being bounded by co-extensive longitudinal areas cemented together with said adhesive means, other lateral co-extensive areas also cemented together with said adhesive means and extending between said articles toward said first areas and isolating said articles from each other, and perforations formed in the walls of said package placing said articles in communication with the atmosphere, said cemented lateral areas being of such width that they may be severed on a median line extending therethrough without releasing any of said articles.

2. In a package an elongated double walled non-metallic casing having a plurality of articles aligned in spaced-apart relation therein, adhesive means provided in certain areas of said package, at least one closure for said package consisting of overlapping areas extending longitudinally of said package and cemented together with said adhesive means, opposite interior walls of said package between said articles also being cemented together with said adhesive means along lateral areas of substantial width, and perforations formed in the walls of said package providing means placing said articles in free communication with the atmosphere.

3. In a package to be used without removing the contents therefrom, certain areas of said package having adhesive means therein, an elongated double walled flexible non-metallic member having longitudinal area adjacent to the edges thereof cemented together by said adhesive means, a plurality of articles therein disposed in spaced-apart relation to each other, adjacent areas of the walls of said package between said articles also being cemented together by said adhesive means to keep the articles separated, said adjacent areas being of such width that portions of said package may be severed from the remainder without releasing any of said articles, and perforations in said walls providing communication with said articles.

4. In a package to be used without removing the contents therefrom, adhesive means being provided in certain areas of said package, an elongated double walled non-metallic casing having a plurality of groups of articles spaced apart from each other therein, one longitudinal edge of said package being bounded by co-extensive longitudinal areas cemented together by said adhesive means, one of said areas being cut by a longitudinal row of tear perforations, termed "tear perforations" disposed in spaced parallel relation to one of said longitudinal edges, the space between said perforations and said last edge being substantially less than the width of the adhesive in said longitudinal areas, other narrow co-extensive areas cemented together by said adhesive and extending between said groups of articles and toward said first area to isolate said groups from each other, and communication perforations formed in the walls of said package and communicating with said groups of articles.

5. In a package to be used without removing the contents therefrom, adhesive means being provided in certain areas of said package, an elongated double walled flexible member having longitudinal areas adjacent to the edges thereof cemented together by said adhesive means, a plurality of articles therein disposed in spaced-apart relation to each other, adjacent areas of the walls of said package between said articles also being cemented together by said adhesive means in bands of substantial width to keep the articles separated, said bands also being adapted to be bisected without releasing any of said articles, and perforations in said walls providing communication with said articles.

6. A package comprised of an elongated casing embracing a plurality of spaced-apart articles and having longitudinal edges cemented together by means of a longitudinal area of an adhesive, a portion of said casing adjacent to one of said edges being removable to uncover a longitudinal portion of said area, means in said casing comprised of lateral areas of said casing cemented together by means of said adhesive for isolating said articles from each other, and communication perforations in the walls of said casing providing communication between the atmosphere and said articles, said portion to uncover said band of adhesive being adapted to be removed for

the purpose of utilizing said band for adhering said package on a support.

7. In a package to be used without removing the contents therefrom, certain areas of said package having an adhesive therein, a double walled elongated flexible plastic member having tear perforations spaced apart from one longitudinal edge thereof and having elongated areas adjacent to the edges thereof cemented together by said adhesive, the spacing of said tear perforations apart from said edge being less than the width of said adhesive, a plurality of articles disposed in spaced-apart relation in said package, the adjacent walls of said member between said articles also being cemented together by said adhesive in bands of sufficient width to be severed along a median line thereof without releasing any of said articles, and a plurality of perforations formed in said member to provide communication between said articles and the atmosphere, the portion of said area between said tear perforations and the edge thereof being adapted to be removed to uncover the adhesive on the cooperative edge for adhering said package to a support.

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