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PACKAGE AND METHOD OF PACKAGING

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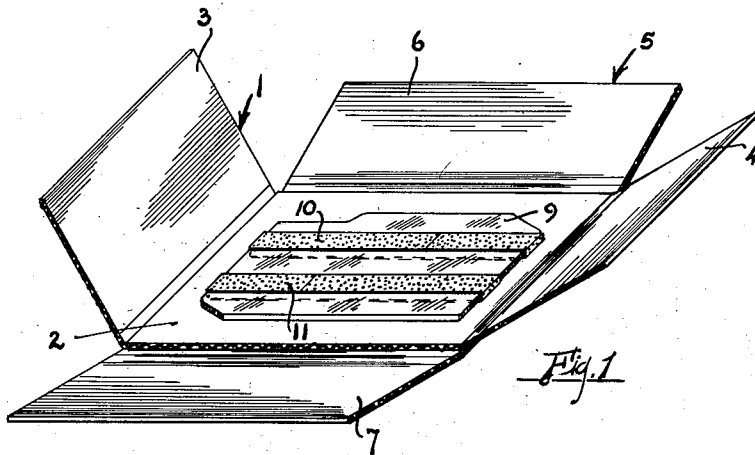


Fig. 1

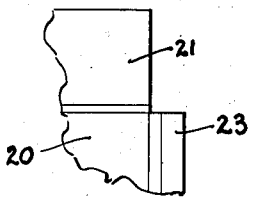


Fig. 4

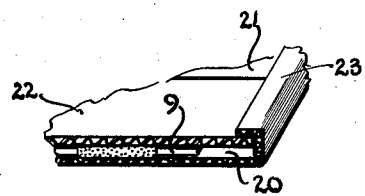


Fig. 5

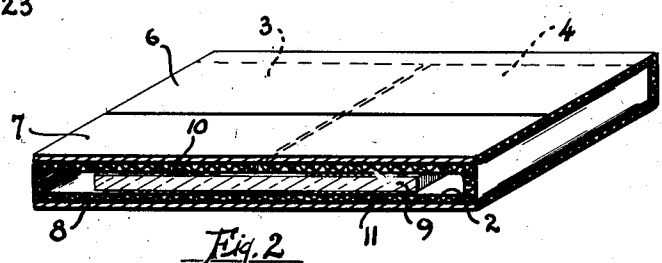


Fig. 2

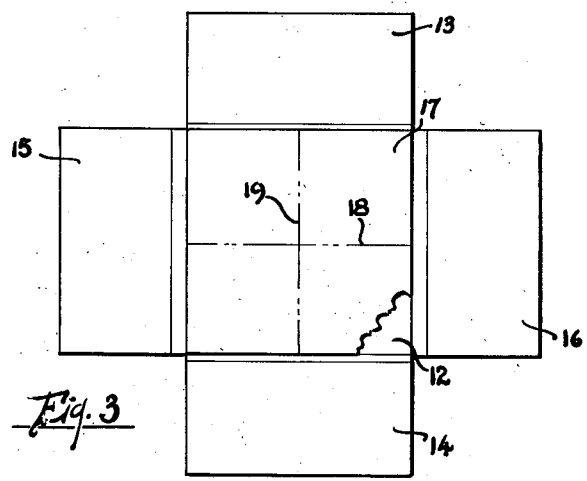


Fig. 3

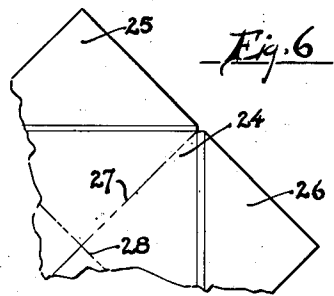


Fig. 6

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PACKAGE AND METHOD OF PACKAGING

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1 Claim. (Cl. 206—62)

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This invention pertains to improvements in packaging and particularly the packaging of fragile materials.

The invention is particularly adapted to the packaging of panes of glass and like objects to provide adequate protection therefor during handling in transshipment and distribution. The articles to be packaged are frequently of various sizes and irregular contours, thus accentuating the problem of simply packaging the same for safe shipment.

It is therefore an object of this invention to provide a novel arrangement for retaining an article in a shipping container.

It is a further object of the present invention to provide a novel means for securing an article within a container.

It is another object of this invention to provide a simple means for packaging articles, such means being inexpensive and yet providing improved protection over elaborate and expensive means presently used.

It is yet another object of this invention to provide a packaging arrangement whereby containers of a few standard sizes may be satisfactorily utilized for articles of a wide variety of sizes and shapes.

Other objects of invention will become apparent from the following description taken in connection with the accompanying drawings, in which:

Fig. 1 is a perspective view of a typical embodiment of the present invention;

Fig. 2 is a cross-sectional view of the arrangement shown in Fig. 1;

Fig. 3 is a plan view of a modified form of the present invention;

Fig. 4 is a fragmentary portion of a modified form of container;

Fig. 5 is a cross-sectional view illustrating the assembled relationship of the component parts of the container shown in Fig. 4; and

Fig. 6 is a plan view of a modified form of container according to the present invention.

Referring to the drawings there is shown in Fig. 1 a container adapted for packing articles such as window panes. These panes may involve units in a wide variety of sizes and shapes.

In the preferred embodiment of the invention an inner member 1 of suitable resilient material, such as corrugated fiberboard, is provided with a central area 2 and extended portions 3—4. A corresponding outer member 5, including extended portions 6—7, is positioned transversely to the member 1, the central area 2 thereof over-

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lying the corresponding central area 8 of the member 5.

The article 9 which is to be packaged has applied thereto one or more strips of an adhesive-coated material, as at 10—11. These strips or tapes may be of any suitable material and are coated with adhesive upon both surfaces. The tapes are applied directly to the surfaces of the article 9 and may completely encircle the article. Very satisfactory results have been obtained using a paper tape coated on both sides with a pressure-sensitive type adhesive, which is available from various commercial sources.

The article, with tape applied to the surfaces thereof, is placed in position upon the central area 2 of the container member 1, and the extended portions 3 and 4 are folded over the upper surface of the article. The adhesive-coated tapes effect an interengagement of both surfaces of the article 9 and the areas 2, 3, and 4 of the member 1. This serves to cushion the article and retain it in spaced relationship with respect to the marginal areas of the container, thereby precluding the possibility of damage from edge contacts.

The extended portions 6—7 of the outer member 5 are folded over the portions 3—4 of the inner member 2, and may be retained by any convenient means to complete the package. The direction of the corrugations of material comprising the members 1 and 5 is preferably arranged at right angles in order to obtain a package assembly of maximum rigidity. The intimate engagement of article 9 with substantial areas of the adhesive-coated tapes 10—11 provides a very advantageous effect since the rigidity of the package is considerably increased. As a consequence additional stiffening means, such as extra plies of corrugated material, usually required, may be dispensed with while still providing adequate protection for the enclosed article. The saving in materials which it is possible to effect also leads to further advantages in reduction of bulk and weight during shipping and handling.

The invention may be practiced in a variety of embodiments. In Fig. 3, for example, there is shown a single piece container comprising a central area 12 and pairs of extended members 13—14 and 15—16. An additional thickness of material is provided at 17, overlying the central area 12, to provide uniform protection on both sides of the article to be packaged. In this arrangement the pair of extensions 13—14 fold to

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the center, as indicated at 18, to engage the enclosed article, and the second pair 15-16 are subsequently folded to the line 19 to overlie the former.

A further modification of a packaging member applicable to the present invention is indicated in Fig. 4 wherein a central area 20 is adapted to receive the article, and a pair of extended members 21-22 are then folded inwardly to meet at the center, the inner surfaces thereof engaging the article. A second pair of smaller extensions as at 23 are provided to enclose the opposite sides.

In the modification shown in Fig. 6 the article is arranged to be positioned within a central area 24, and a plurality of extended portions as at 25-26 are then folded over the article so that their abutting edges meet, as indicated by the lines 27-28.

Although the invention has been described and illustrated in detail, it is to be clearly understood that the same is by way of illustration and example only, and is not to be taken by way of limitation, the spirit and scope of this invention being limited only by the terms of the appended claim.

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We claim:

A packaging arrangement for a sheet of glass comprising a container of yieldable material, strips of tape having adhesive applied to two sides thereof attached to sides of the glass sheet and to corresponding sides of said container, the edges of said glass sheet being spaced from the corresponding edges of said container.

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