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A. L. SHERWOOD

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PACKAGE FOR FOOD PRODUCTS

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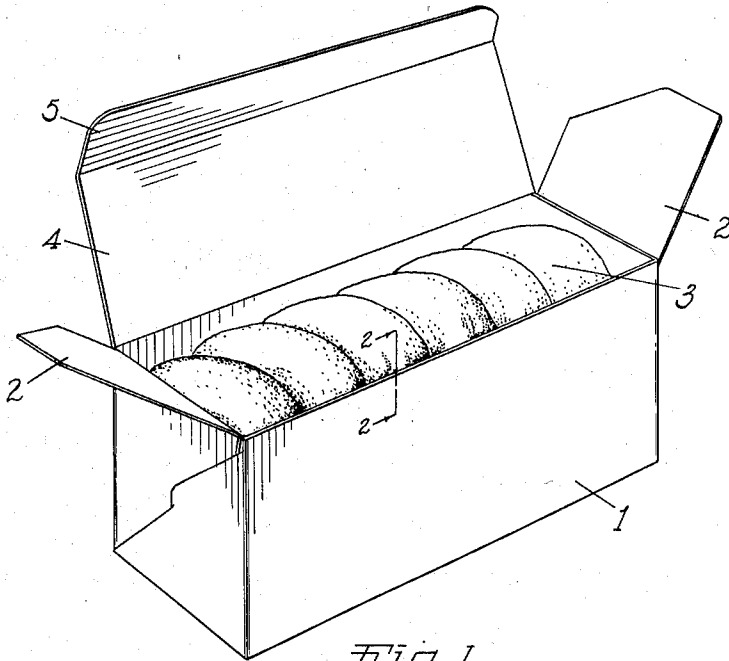


Fig. 1

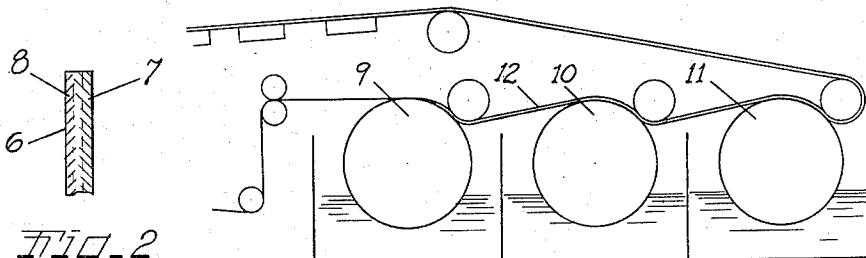


Fig. 2

Fig. 3

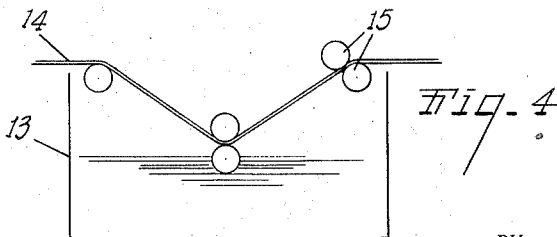


Fig. 4

INVENTOR.
Albert L. Sherwood
BY
Earl F. Shaffell
ATTORNEYS

UNITED STATES PATENT OFFICE

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PACKAGE FOR FOOD PRODUCTS

Albert L. Sherwood, Kalamazoo, Mich., assignor
to Sutherland Paper Company, Kalamazoo,
Mich., a corporation of Michigan

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This invention relates to improvements in package for food products.

In the merchandising of various greasy food products, for example, lard, doughnuts or fried cakes, the grease frequently seeps through the wall of the package, rendering it unappetizing and unsightly. Packages having strictly grease-proof walls are not generally practicable on account of the expense thereof.

The main object of this invention are to provide an economical package for the merchandising of food products which is not rendered unsightly or unappetizing by penetration of grease and does not assume an objectionable spotted appearance as a result of grease seeping therethrough in spots.

A further object is to provide a package having these advantages which may be very economically produced.

Objects relating to details and economies of the invention will appear from the description to follow. The invention is defined and pointed out in the claims.

A preferred embodiment of the invention is illustrated in the accompanying drawing, in which:

Fig. 1 is a perspective view of an open food package embodying the features of my invention, a plurality of fried cakes being conventionally illustrated therein.

Fig. 2 is an enlarged fragmentary section on line 2—2 of Fig. 1.

Fig. 3 is a fragmentary view of a cylinder type paper machine which may be used for the manufacture of container-board stock which I preferably employ.

Figure 4 is a conventional illustration of an apparatus for applying wax.

Referring to the drawing, the container 1 is formed of a suitable blank, preferably one which can be set up without gluing. The details of the blank are not illustrated as the structure may be very greatly varied.

The end flaps 2 are adapted to be folded inwardly after the contents, as for example doughnuts conventionally illustrated at 3, are placed in the container and the cover 4 closed, the cover having a tucking flap 5.

The container-board or material indicated generally by the numeral 6, Fig. 2, comprises an inner layer 7 and an outer layer 8 fully integrated or formed by depositing the fibrous stock as indicated in Fig. 3 in which there are a plurality of forming cylinders 9, 10 and 11, the fibers for the layer 7 being deposited on the web 12 by the cyl-

inders 9 and 10 and the fibers for the outer layer being deposited by the cylinder 11.

The container-board may be built up as desired, that is, it may be laminated or of uniform composition throughout. A very satisfactory furnish for the cylinder 11 is 75% bleached sulphite fiber and 25% unbleached sulphite fiber with which has been thoroughly mixed or incorporated from 2½ to 10% titanium, the product commercially known as titanium oxide being suitable for the purpose. This titanium material or grades or qualities of it are also sometimes designated as titanium dioxide and titanium white. Zinc sulphide may be used with quite desirable results.

The stock or the container blanks are preferably treated with wax. An apparatus for this treatment is shown in Fig. 4 in which the tank 13 is provided for the wax with suitable guide rolls for guiding the web of material, indicated at 14, through the tank and discharged between the pair of rollers from which it is delivered through a pair of squeezing rollers 15. Suitable means are known in the art for treating the outside only with wax. This wax, preferably paraffin wax, is not resistant to grease and its use is not designed to render the package or container grease-resistant, but its use does substantially add considerably to the appearance of the product in use, that is, while it darkens slightly the white outer layer 6, it minimizes the spotting resulting from the penetration of grease from the contents of the container.

My improved package is very attractive, but the main advantage is that it does not become so discolored or spotted by the penetration of grease in restricted areas as to become unattractive and unappetizing in appearance.

I have illustrated my invention in a simple embodiment thereof. I have not attempted to illustrate other embodiments as it is believed that this disclosure will enable those skilled in the art to embody or adapt my invention as may be desired.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent, is:

1. A carton container suitable for greasy food products and the like formed of fibrous-board stock having inner and outer integrated layers of paper stock fiber, the outer layer being formed of a furnish comprising 75% bleached sulphite, 25% unbleached sulphite and having between 2½ and 10% titanium oxide incorporated therewith, the container-board being waxed.

2. A semi-rigid package suitable for greasy food products formed of container-board stock having inner and outer integrated layers of paper stock fiber, the outer layer containing titanium oxide in such proportion as to substantially reduce the discoloration thereof from greasy seepage or transfer through the wall of the container, the package being waxed on its outer surface only.

3. A semi-rigid package suitable for greasy food products formed of container-board stock having inner and outer integrated layers of paper stock fiber, the outer layer containing titanium oxide in such proportion as to substantially reduce the discoloration thereof from greasy seepage or transfer through the wall of the container.

4. A semi-rigid package suitable for greasy food products formed of fibrous-board stock having an outer layer containing a light refracting material of relatively high index in such proportion as to substantially reduce the discoloration thereof from greasy seepage or transfer through the wall of the package, the package being waxed on at least its outer surface.

5. A semi-rigid package suitable for greasy food products formed of fibrous-board stock having an outer layer containing a light refracting

material of relatively high index in such proportion as to substantially reduce the discoloration thereof from greasy seepage or transfer through the wall of the package.

6. A semi-rigid package suitable for food such as fried cakes or doughnuts adapted to receive a row of doughnuts or fried cakes arranged side by side and with portions thereof contacting with the wall of the package, the walls of the package being formed of fibrous container-board, the surface portion of the container-board stock containing titanium oxide in such proportion as to substantially reduce the discoloration thereof from grease seepage or transfer through the wall of the package, the outer surface being treated with wax.

7. A semi-rigid package suitable for food such as fried cakes or doughnuts adapted to receive a row of doughnuts or fried cakes arranged side by side and with portions thereof contacting with the wall of the package, the walls of the package being formed of fibrous container-board, the surface portion of the container-board stock containing titanium oxide in such proportion as to substantially reduce the discoloration thereof from grease seepage or transfer through the wall of the package.

ALBERT L. SHERWOOD.