May 3, 1949. L. PETERS 2,469,204

PACKAGE WRAPPER

Filed March 1, 1946

Fig. 1

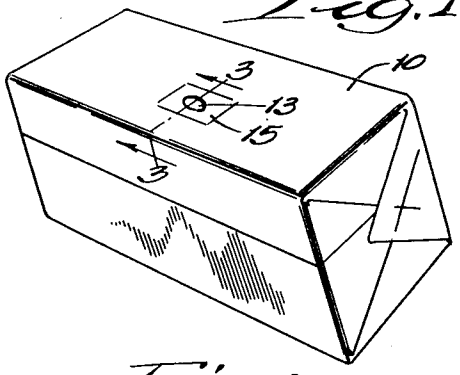


Fig. 3

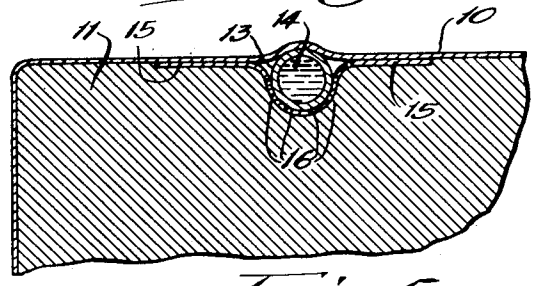


Fig. 5

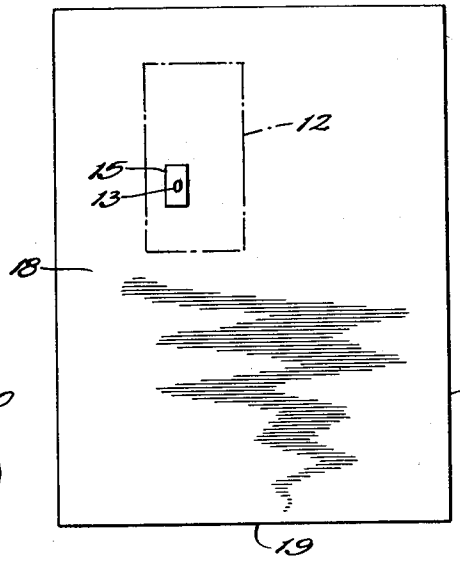


Fig. 2

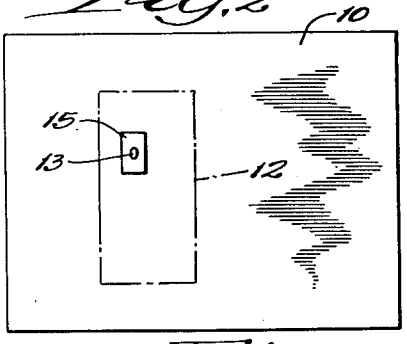


Fig. 4

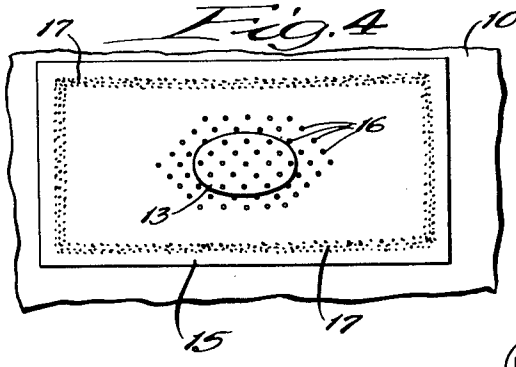
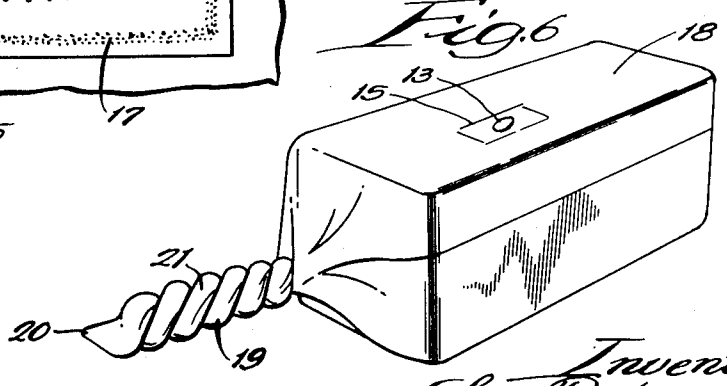


Fig. 6



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UNITED STATES PATENT OFFICE

2,469,204

PACKAGE WRAPPER

Leo Peters, Evanston, Ill., assignor, by mesne assignments, of two-thirds to Leo Peters and one-third to Helen M. Peters, both of Evanston, Ill.

Application March 1, 1946, Serial No. 651,319

5 Claims. (Cl. 99—171)

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This invention relates to a package wrapper. The invention is particularly useful in the provision of a capsule-equipped wrapper, whereby coloring matter or other material useful with the contents of the package may be broken when desired for incorporation of the material with the contents of the package.

In the sale of uncolored oleomargarine, it is desired to provide means for supplying coloring matter which the housewife may readily mix with the oleomargarine. It is common to use a gelatin capsule for including the color ingredient to preserve it in air-tight condition and for incorporation in the oleomargarine.

Considerable difficulty has been experienced in the use of such capsules particularly for oleomargarine. Often the customer fails to receive a capsule or loses it. Very frequently, the capsule is broken on the way home from the store, resulting in stained clothes, food, etc. If the housewife's fingers happen to be wet, the gelatin capsule may slip out of her grasp and become lost or become soiled before it is retrieved. Even when she is successful in breaking the capsule properly, it is substantially impossible for her to avoid getting her fingers stained with the coloring matter. For the purpose of illustration, the invention will be described herein as being employed with oleomargarine.

An object of the present invention is to overcome the above disadvantages and provide a wrapper which at all times maintains the gelatin capsule in the desired position and in a position where it may be broken without bringing the coloring matter into contact with the fingers. A further object is to provide a wrapper equipped with an air-tight capsule which maintains the coloring matter or other material constantly out of communication with the contents of the package while, at the same time, confining the shell of the capsule after the same is broken and permitting the contents of the capsule to mix readily with the contents of the package. Yet another object is to provide means which may be employed with a flat wrapping strip, while requiring no folds therein, for supporting a capsule within the air-tight wrapper but maintaining the shell of the capsule, after it is broken, out of contact with the contents of the package. A further object is to provide a package for the mixing of the oleomargarine and coloring matter or the fixing of any other similar substances while within the package, and also providing a package which may be expanded or contracted as desired in the mixing operation. Other specific objects

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and advantages will appear as the specification proceeds.

The invention is illustrated, in preferred embodiments, by the accompanying drawing, in which—

Figure 1 is a perspective view of a package wrapper structure embodying my invention; Fig. 2, a top plan view of the wrapper prior to its being folded about a cake of oleomargarine or the like; Fig. 3, an enlarged transverse sectional view, the section being taken as indicated at line 3 of Fig. 1; Fig. 4, a bottom plan view of the capsule-enclosure sheet employed; Fig. 5, a plan view of a modified form of wrapper embodying my invention; and, Fig. 6, a perspective view of the modified structure shown in Fig. 5, providing an adjustable enclosure for oleomargarine and the like and useful in the mixing of the contents of the package.

In the illustration given in Figs. 1 to 4, inclusive, 10 designates a wrapper formed of any suitable flexible material and preferably a translucent material. Wrapper 10 is adapted to be folded about a cake 11 of olemargarine or the like. Secured to the top wall 12 of the folded wrapper is a capsule 13 containing coloring matter 14, or other material which is to be mingled with the contents of the package.

The capsule 13 is confined against the top wall of the wrapper by means of a retaining strip 15 which is preferably formed of thermoplastic material and which is provided with perforations 16. The application of a heating element along the line 17 causes a fusion between the thermoplastic members 10 and 15 and unites the two, as illustrated more clearly in Fig. 4.

In the operation of the structure shown in Figs. 1 to 4, inclusive, the wrapper 10 is formed, as shown more clearly in Fig. 2, with the capsule 13 secured against the wall of the wrapper 10. The wrapper 10 is then folded about the oleomargarine 11 or other suitable material and the capsule 13 is pressed downwardly so that it, together with the pocket of the member 15, is deeply imbedded within the oleomargarine or other body. With this structure, the capsule 13 is protected against breaking by means of the body of oleomargarine thereabout while, at the same time, the capsule 13 is available from outside the package for breaking by means of a pinching movement.

The housewife may unfold the wrapper 10, and in this operation, the wrapper 10 readily draws the capsule 13 out of engagement with the body of oleomargarine cake 11. The wrapper may

then be placed over the body of oleomargarine and the housewife, by engaging the wrapper 10 from the outside, where it extends around the capsule 13, can break the capsule and thus allow the coloring matter to flow into the oleomargarine without staining her fingers with the coloring material. She can also effectively apply the coloring material through the oleomargarine body by pressing the capsule portion of the wrapper 10 deeply into the body of the oleomargarine at spaced points.

An effective mixing of portions of the oleomargarine can also be accomplished within the wrapper 10 by holding it enclosed about the oleomargarine body and kneading the oleomargarine.

During all of the above operations for bringing the coloring matter into contact with the oleomargarine or other material, there is no chance for the capsule portions to become mingled with the oleomargarine, etc., body because these particles are confined by the strip 15 tightly in contact with the wrapper 10.

In the modified structure shown in Figs. 5 and 6, the structure is identical with that in Figs. 1 to 4, inclusive, except that one end of the wrapper 18 is extended laterally at 19. Further, in the structure shown in Figs. 5 and 6, I prefer to heat seal the wrapper 18 entirely around the oleomargarine body 11 except at one extreme end of the member 19. In other words, as shown more clearly in Fig. 6, I provide a case or bag which entirely encloses the oleomargarine and is free only at the outer end 20. The neck portion formed by the extension 19 may be twisted as indicated by the numeral 21 in Fig. 6, to provide a closure for the end of the casing.

In the operation of the modified structure shown in Fig. 5, the wrapper may be placed about the oleomargarine cake or other material and is sealed thereabout so as to provide a complete enclosure except for the opening 20 at the end of the extension 19, thus forming a sack or bag open only at one end. The freely extending portion 19 may be grasped by the housewife and employed for drawing the capsule 13 out of contact with the oleomargarine body in which it is imbedded. She may then break the capsule and then press the portion about the capsule deeply within the body of the oleomargarine to distribute the coloring matter therein. She may then further twist the extension 19 to form the twisted handle 21 and then proceed to knead the mass within the wrapper until the coloring matter is uniformly distributed throughout the oleomargarine. Sometimes in the kneading operation, depending upon the material within the package and its viscosity, it is desired to have a relatively large space during the kneading operation, and in this instance the housewife may unroll the twisted handle 21 slightly so as to provide a greater area within the package for the kneading of the material. At other times, it is desired to have a smaller space within the package for the kneading operation and the housewife may here tightly twist the extension 19 so as to provide a smaller chamber within the package for the material during kneading.

It will be understood that the wrapper may be secured around the oleomargarine in a variety of ways and sealed about the cake in partial extent or not at all, as illustrated herein.

The twisted portion 21 of the modified wrapper or case 18 is effective not only as a means for regulating the size of the chamber in which the oleomargarine, etc., is being kneaded but also, it serves as a handle to enable the operator to turn the case rapidly over during the kneading operation.

Any suitable material for forming the wrapper may be employed. I have found that synthetic rubber or Vinylite are unusually good. Such materials are not only translucent and thus enable the operator to see the progress of the coloring operation, but also, they are tough and stretchable to a degree. Further, they permit heat sealing about the contents. For the kneading operation, the synthetic rubber, Vinylite, etc., are particularly effective because of their resilience, and quality of immediate recovery after stretching.

While in the foregoing description, I have set forth certain details by way of illustration, it will be understood that such details may be varied widely by those skilled in the art without departing from the spirit of my invention.

I claim:

1. A package wrapper comprising a translucent web of flexible material suitable for kneading oleomargarine therein, said wrapper being adapted to be sealed about a body of oleomargarine, a perforated flexible strip secured to an inner wall of said web, and a frangible capsule held between said perforated strip and said inner wall of the web, said capsule containing coloring matter and the perforations of said strip being of a size to permit the flow of said coloring matter, when the capsule is broken, into said oleomargarine while confining the shell of said capsule.

2. A capsule-equipped wrapper comprising a web of flexible translucent material suitable for enclosing a body of oleomargarine and for the kneading of the oleomargarine therein, said web having walls enclosing said oleomargarine and having wall portions sealed to each other in part and providing between them a chamber, the inner of said walls about said chamber being perforated and the outer of said walls about said chamber being imperforate, and a frangible capsule containing coloring material confined within said chamber and resting over said perforated area, the perforations in said wall permitting the flow of the coloring matter therethrough when the capsule is broken while confining the shell of said capsule.

3. A package wrapper comprising a translucent web of flexible material adapted to enclose a body of oleomargarine and to be sealed thereabout to provide a closed package except at one end and said web being extended adjacent said open end to provide a closure when folded and when the contents of said package are being kneaded, a strip of flexible material secured to an inner wall of said package, and a frangible capsule containing coloring material between said strip and said wall, said strip having perforations therein permitting the flow of coloring matter therethrough when said capsule is broken but confining the shell of the capsule between the strip and said wall.

4. An oleomargarine package comprising a transparent web of tough flexible material suitable for kneading oleomargarine therein, a body of oleomargarine sealed within said web, a strip of flexible material sealed to the inner wall of said web and providing a chamber therebetween, and a frangible capsule containing coloring material within said chamber, said strip having perforations therein of a size sufficient to permit the flow of coloring matter therethrough when the

capsule is broken while confining the shell of said capsule within said chamber.

5. An oleomargarine package comprising a wrapper of stretchable, translucent and thermoplastic material adapted to be sealed in enclosing relation about a body of oleomargarine, a strip of thermoplastic material heat sealed to the inner wall of said wrapper and providing a chamber between the strip and said wall, and a frangible capsule containing coloring material confined within said chamber and adapted to be imbedded within the body of the oleomargarine, said strip having perforations therein permitting the flow of coloring material therethrough when said capsule is broken while confining the shell of the capsule within said chamber.

LEO PETERS.

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