Aug. 5, 1952 L. PETERS 2,606,121

OLEOMARGARINE PACKAGE

Filed Nov. 28, 1947

Fig. 1

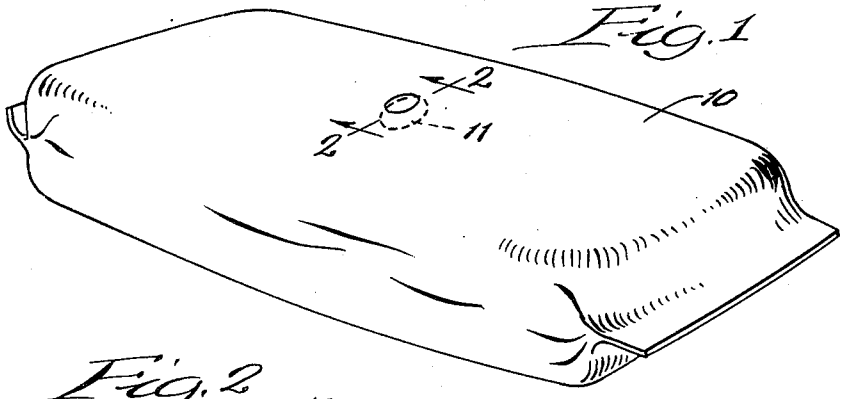


Fig. 2



Fig. 4

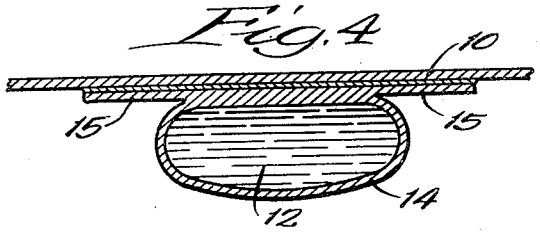


Fig. 3

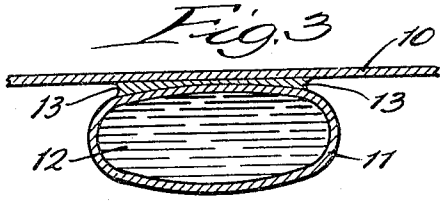


Fig. 5

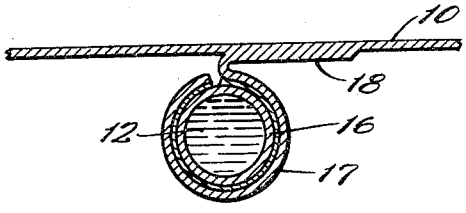
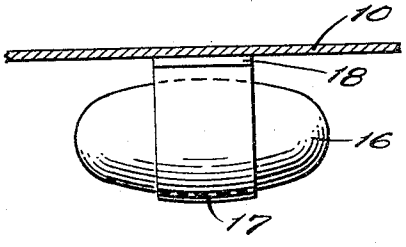


Fig. 6



Inventor:
Leo Peters,

By Dawson, Owens, Boothe & Spangenberg,
Attorneys.

Patented Aug. 5, 1952 2,606,121

UNITED STATES PATENT OFFICE

2,606,121

OLEOMARGARINE PACKAGE

Leo Peters, Evanston, Ill.

Application November 28, 1947, Serial No. 788,509

2 Claims. (Cl. 99—179)

1

This invention relates to a package wrapper. The wrapper or package is particularly useful in connection with oleomargarine, and the like, and for coloring of the oleomargarine in a kneading operation without removal of the oleomargarine from the wrapper.

While a capsule containing coloring material may be placed loosely within an oleomargarine package, the result is not as satisfactory as where the capsule is secured in a permanent position with respect to the wrapper, so that it may be properly sheltered during shipment and so that it is readily found when it is desired to mix the coloring material with the oleomargarine. The loose capsule or casing can readily shift its position within the body of the oleomargarine due to pressures on the package, and it is not easy to locate in the final mixing operation. Further, the capsule is slippery and difficult to hold during the breaking operation. Other disadvantages are obvious.

An object of the present invention is to provide an extremely simple and effective means for securing a capsule or casing to the wall of the wrapper at a desired point, while at the same time enabling the same to be broken to permit the mixing of the coloring material with the oleomargarine. A still further object is to provide a wrapper or package in which the coloring material, preferably in liquid form, is held within a frangible container united by adhesive or by fusion to the wall of the container, the casing being fracturable from without the wrapper. A still further object is to provide a capsule or casing containing coloring material in combination with a tie member securing the capsule to the wall of the wrapper, the tie member and capsule both being frangible to permit the flow of the material within the capsule into the body of oleomargarine. Yet another object is to provide a structure in which a capsule or enclosed casing containing coloring material is provided with integral extensions, the integral extensions providing means for ready attachment to the walls of the wrapper or package. Other specific objects and advantages will appear as the specification proceeds.

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

Figure 1 is a perspective view of a filled package or container sealed about a body of oleomargarine and equipped with a frangible container for coloring material, in accordance with my invention; Fig. 2, an enlarged sectional view,

2

the section being taken as indicated at line 2 of Fig. 1; Fig. 3, a view similar to Fig. 2 but showing the capsule secured by adhesive; Fig. 4, a view similar to Fig. 2 but showing a modified form of capsule attached to a wall of the wrapper; Fig. 5, a view similar to Fig. 2 but showing a third form of the invention in which a tie member extends about the capsule or casing and has another end secured to a wall of the wrapper; and Fig. 6, a side view in elevation of the structure shown in Fig. 5.

In the illustration given, 10 designates a container. The container may be formed from a tubular extruded body, or it may be formed from a flat sheet by sealing together the longitudinal edges of the sheet. After the oleomargarine is within the wrapper or container, the ends are sealed. I prefer to employ a casing which may be heat sealed so as to effect a quick sealing of the ends of the package.

Centrally located within the container and at the top thereof is a casing member 11 and containing coloring material 12. The coloring material may be in the form of a powder, paste or liquid. By employing a liquid, I find that a quicker dissemination of the coloring material throughout the oleomargarine can be effected. The capsule or casing 11 may be secured to the wall of the container 10 by adhesive 13, as illustrated in Fig. 3, or by fusion of the wall casing 11 with the wall of the container 10. The fusion may be effected by the use of heat, using thermoplastic materials, or by the use of a solvent, which is a solvent mutually for the container and casing walls.

In the illustration given in Fig. 4, the casing or capsule 14 is equipped with integral flanges 15, which are secured by adhesive or by fusion to the wall 10 of the container. In the modification illustrated in Figs. 5 and 6, the capsule or casing 16 is partially enveloped by a strip 17 secured to the capsule, and the upper end 18 of the strip 17 is bonded or fused with the wall 10 of the container.

The casing or walls of the wrapper 10 are preferably formed of a transparent, flexible plastic material, which enables the housewife to see the progress of the coloring while the oleomargarine within the container is being kneaded, and which will stand up under the strain of the kneading operation. I have found that excellent results are obtained when the material is also resilient and stretchable. For example, a translucent, synthetic rubber, or a vinylite material, has been found very satisfactory. Chlo-

rinated rubber may be used. Thermoplastic materials, such as cellulose acetate, vinyl acetate, vinyl chloride (copolymer), etc., polyethylene, polystyrene, polytetrafluoroethylene polymer, and a large number of other well-known materials may be employed.

The casing of the coloring material container may also be formed of any of the above materials, or like materials, which will form a suitable sheath for enclosing the coloring liquid or powder, while at the same time being frangible or rupturable under pressure. If desired, the casing of the container 11 may be scored or weakened to facilitate its breaking. I have found that excellent results are obtained where the container 11 is rupturable, while at the same time sufficiently tough and flexible to remain without shattering or losing any of its body during the kneading operation.

In the operation of the structure, I prefer to attach the capsule or color-containing casing to the wrapper 10. If the wrapper is a flat strip, the capsule may be attached thereto before the wrapper is formed into a bag or drawn around the oleomargarine body to envelope the same. If the wrapper is already in the form of a tube, the capsule may be attached to an inner wall of the tube prior to the filling with oleomargarine. After the wrapper or bag is caused to enclose the body of oleomargarine, the wrapper is sealed thereabout in air-tight relation. The sealing may be by the use of solvents or by the use of heat or adhesive, or by any other suitable means. In the illustration given in Fig. 1, a tubular casing is filled with oleomargarine and the ends thereof are sealed by heat, a flexible, translucent thermoplastic material being illustrated. The package, so formed, may be placed within a carton and shipped to the consumer. The consumer withdraws the bag from the carton and allows the oleomargarine to soften. Pressure is then applied to the sides of the casing 10 around the capsule 11 so as to rupture the wall of the capsule 11. The coloring liquid or powder then is brought into contact with the oleomargarine, and the mass is kneaded so as to distribute the coloring material evenly throughout the oleomargarine. When a uniform even color has been produced, the bag, which is still unopened, is pressed into a suitable rectangular shape to fit within the carton, and the carton is returned to the refrigerator. Later, when it is desired to use portions of the oleomargarins, the bag may be withdrawn and a portion of the bag and the oleomargarine therein cut away.

The casing or container 11 for the coloring material may have its walls formed integrally with the walls of the casing 10 or fused into integration therewith. In other words, the coloring material may be enclosed within the casing wall 11 and the wall may be sealed, and thereafter the container may be fused to the wrapper wall 11, either by heat or by chemicals, to produce the result shown in Fig. 2.

The same effect may be produced also by simply extending inwardly a portion of the wrapper wall 10 to form an inner container, filling the inner container, thus formed, with coloring material, and then bringing together and fusing the walls about the container to produce the result shown in Fig. 2. By this method, the container 11 and wrapper 10 are actually formed from the same wall or sheet.

The structure shown in Fig. 4 is highly advantageous for commercial application in the case where the casing 14 is prepared separately and then at a later stage attached to the wrapper wall 10. The flanges 12 enable the coloring material container to be thus readily attached to the wrapper 10 by heat sealing, or other means, without bringing heat into contact with the main body of the container.

The structure illustrated in Figs. 5 and 6 also lends itself to efficient industrial application, in that the flap 18 may be attached by heat sealing, etc. without injuring the body of the container 16. In this structure, a further advantage is obtained where the tie portion 17 is also rupturable so that under pressure the rupture may occur within the tie member 17 as well as in the central portions of the capsule 18 or along the ends thereof.

By the method and means illustrated, it is possible to lock the capsule or color-containing member at a selected point in the package where it is least likely to be damaged, or where it is most accessible, or where it may be most advantageously used for spreading the coloring material quickly throughout the body of oleomargarine.

While in the foregoing specification I have set forth a structure and means in specific detail for the purpose of illustrating the invention, 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, comprising a wrapper of flexible, translucent material adapted for the kneading of oleomargarine, a body of oleomargarine enclosed and sealed within said wrapper, a capsule formed of a plastic material which splits under pressure without fragmentation, and coloring fluid within said capsule, the wall of said capsule being fused to the inner wall of the wrapper to fix said capsule directly to said wrapper wall.

2. A package, comprising a body of oleomargarine, a translucent plastic wrapper sealed about said oleomargarine body and being flexible and adapted for the kneading of the oleomargarine therein, a fluid coloring material container formed of plastic material splitable under pressure without fragmentation, and a layer of bonding material between the wall of said capsule and the inner wall of said plastic wrapper, whereby said capsule is directly united to said wrapper wall and said wrapper wall is reinforced at the point of union between the container wall and the wrapper wall.

LEO PETERS.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
1,474,248	English	Nov. 13, 1923
1,881,293	Poirier et al.	Oct. 4, 1932
2,293,072	Morrill	Aug. 18, 1942
2,347,640	Peters	May 2, 1944
2,469,204	Peters	May 3, 1949