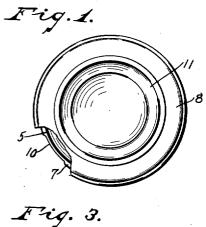
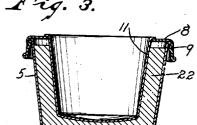
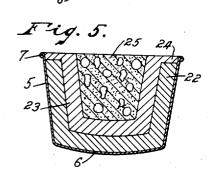
METHOD OF PRODUCING FROZEN COMESTIBLES

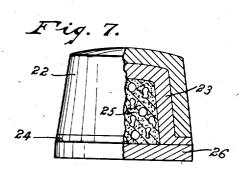
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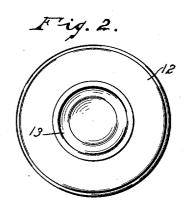
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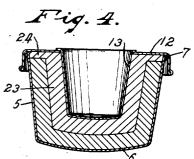


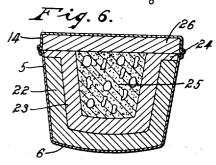


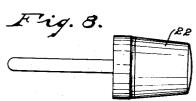












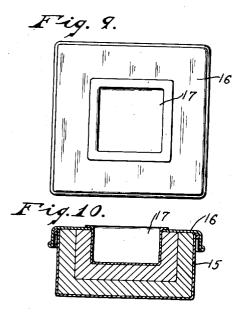
INVENTOR. Patrick J. De Pasquale by

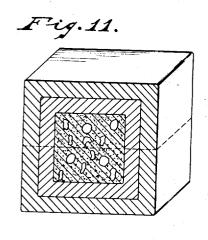
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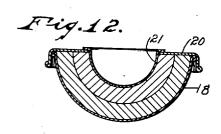
METHOD OF PRODUCING FROZEN COMESTIBLES

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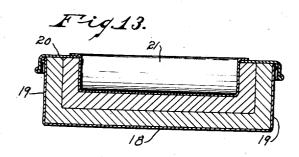
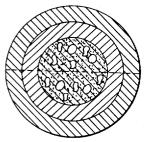


Fig. 14.



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METHOD OF PRODUCING FROZEN COMESTIBLES

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3 Claims. (Cl. 107-54)

Matter enclosed in heavy brackets [1] appears in the original patent but forms no part of this reissue specification; matter printed in italics indicates the additions made by reissue.

This invention relates to a method of producing frozen 15 comestibles, such as ice cream and the like, and more particularly for producing spumone ice cream which commonly consists of a plurality of layers of frozen, contrasting, edible material.

It is highly desirable that a novel form of frozen comestible be produced having a plurality of internally confined shells or layers of contrasting material so to provide a pleasing effect in the body of the article and also to present a novel and attractive exterior appearance thereto.

Such articles have heretofore been produced by first forming the entire body and then boring out the center thereof or by molding the outer shell by hand and then filling it with it with a contrasting material. At best, only one contrasting material has heretofore been provided and the same has been entirely contained within the outer layer or shell of the frozen article so that inner contrasting formations have not been visible upon the exterior of the article. Further, the methods heretofore used for producing such comestible articles containing a plurality of internal layers of contrasting material have been complicated and time consuming and unsanitary.

A still further object of this invention is to provide a novel, sanitary and highly efficient method for expediting the production of such frozen articles and producing a variety of contrasts intercontained within the body of the article and also showing upon the exterior surface thereof.

Further objects and advantages of my invention will be more clearly understood from the following description 45 and the accompanying drawings in which:

Fig. 1 is a plan view of a mold embodying my invention.

Fig. 2 is a similar view, but showing the said mold with a different member used thereon.

Fig. 3 is a side view, in central vertical section, showing the said mold as used with a first cavity forming member therein and also showing the mold filled with the outer layer of material.

Fig. 4 is a similar view showing said mold as used with a second cavity forming member therein and also showing said mold filled with an inner layer of a contrasting material which extends to the exterior surface of the outer layer.

Fig. 5 is a similar view showing the mold cover and the funner cavity forming member removed and the core cavity filled with the core material.

Fig. 6 is a similar view showing a base or cap placed in position upon the body of the molded article.

Fig. 7 is a side view, partly in vertical section, showing the completed article of frozen material in one form.

Fig. 8 is a side view showing the said article with a stick or handle inserted thereinto.

Fig. 9 is a plan view of a modified form of mold embodying my invention.

Fig. 10 is a side view in central vertical section show-

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ing a partly formed article with two contrasting materials therein.

Fig. 11 is a perspective view, in central vertical section, showing the modified form of comestible article produced with the use of the mold illustrated in Fig. 9.

Fig. 12 is an end view, in central vertical section, showing a further modified form of a mold.

Fig. 13 is a side view thereof in central vertical section. Fig. 14 is an end view, in central vertical section, of a comestible article as produced with the mold as illustrated in Figs. 12 and 13.

As shown in Figs. 1 to 8 of the drawings, my improved mold comprises an outer mold in the form of a container 5 which is preferably formed with upwardly diverging walls and a concavo-convex bottom 6. The said container is preferably provided with a surrounding bead 7, along the free edge of the surrounding wall thereof, which fits within an inverted cup-shaped first cover 8, preferably having detents 9 in the side walls thereof adapted to pass through notches 10 in the bead 7 and engage the underside of the said bead for securing the cover to the container as shown in Fig. 3.

The cover 8 is preferably annular in shape and has an axial projection thereon formed by means of a first cavity forming [member] portion 11 which normally depends from the cover 8 into the container 5 and provides an inner mold that is evenly spaced from the said container to [provide] form a material receiving space between the said cavity forming [member] portion and the inner surface of the container walls 5 and bottom 6.

A second cover 12 is provided with a second cavity forming [member] portion 13 as shown. This second cavity forming [member] portion is smaller than the first [member] portion 11 and of a relative size to provide a material receiving space between the said second [member] portion and the inner surface of the cavity formed by the first [member] portion 11.

In addition to the above described members portions and container, there is also provided a base plate forming cup-shaped member 14 which is adapted to rest upon the free edges of the container member 5 as clearly illustrated in Fig. 6.

In the form illustrated in Figs. 9 and 10, my invention provides a mold which is formed to produce an article in the shape of a half-cube and consists of a container 15 and a cover 16 having a cavity forming [member] portion 17 depending therefrom.

In the form illustrated in Figs. 12 and 13, my invention is embodied in a mold for producing a semi-cylindrical body. This mold consists of an outer container 18 having the semi-circular outer wall with flat end walls 19—19. A cover 20 fits over the said outer end walls and has a depending inner cavity forming [member] portion 21 secured thereto.

The method of producing frozen comestibles of the form shown in Fig. 7 is as follows:

The container 5 is first filled to a predetermined level with a desired material in a substantially flowable state for an outer portion or layer 22. The cover with the first cavity forming [member] portion 11 is then placed upon the container 5 with the said [member] portion depending downwardly thereinto as illustrated in Fig. 3. This will cause the material in the container to rise in the space between the said [member] portion 11 and the container 5 and fill the said container to a level below the upper edge thereof so as to provide a space between the upper surface of the material and the bottom of the cover 8.

The said container with the outer layer of material 22 and the first cavity forming member portion 11 therein is then placed within a freezing compartment and the

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material 22 is permitted to freeze to a substantially hard state. The mold is then taken from the freezing compartment and the [member] portion 11 is filled with hot water, or steamed, so as to free it from the frozen material, and the cover 8 with said [member] portion 11 thereon is then removed from the mold. This leaves the material 22 as a lining within the container 5. The inner cavity in the frozen material 22 is then filled with a second or intermediate layer of contrasting edible material 23, in a substantially flowing state, and the cover 10 12 with the second cavity forming Imember portion 13 is placed upon the mold. This displaces the material 23 and fills the mold up to the bottom of the cover 12 and provides portions 24 of the said second layer of material which project over the edge of the outer layer 15 22 to the wall of the container 5. The said container 5, with the second layer of material therein is then placed in the freezing compartment and the [material] latter is permitted to also freeze to a hard state, thereby completing what may be called the shell of the edible 20 article.

The mold is then again withdrawn from the freezing compartment and the [member] portion 13 is filled with hot water to free it from the material 23. The cover 12 with the [member] portion 13 thereon is then re- 25 moved and the inner cavity of the lining 23 is filled with a core of contrasting edible material indicated at 25. The mold cover 14 with the base or a plate of edible material 26, which has been [prefrozen] frozen therein, unit is then placed in the freezing compartment so that the material 25 is permitted to freeze and the material of the base 26 will become united to the rest of the material in the mold and thus complete the article.

The completed article may now be removed from the 35 mold when desired by simply warming the members 5 and 14 and withdrawing the molded article therefrom.

It will be understood that when the body of the said article is completed by the method above described, it will present the appearance illustrated in Fig. 7 wherein 40 there will be three contrasting colors which include the base 26, the surrounding band on the body formed by the overlapping material 33, and the first layer or outer covering 22.

My improved method as above described permits the 45 formation of frozen desserts, in the form of spumone or the like, having one or any desired number of intercontained layers of contrasting materials which may either show upon the exterior surface or be entirely imbedded within the outer layers as desired. My improved method 50 therefore produces such frozen articles of edible material which are pleasing in appearance and which are immensely fascinating to the eater due to the interest which is attracted by the uncovering of the different contrasting portions as the article is consumed.

In the modified form of my invention illustrated in Figs. 9 to 11, one-half of a cube may be produced in the mold which consists of the container 15 and the intermediate core forming members which are used in the same manner as above described. Two of said halves 60 are then united into the form shown in Fig. 11 which then will comprise an outer shell of material and intercontained layers of contrasting material. The said intercontained layers being contained entirely within the outer

The method for producing the form illustrated in Fig. 12 is similar to that used for producing the cube illustrated in Fig. 11, but the mold is so formed to produce the body of frozen material in the form of a cylinder having first and second layers of contrasting material.

It will also be noted that my improved method and mold producing frozen comestibles alleviates the necessity of touching the product with the hands and, therefore, permits the production of such comestibles in a most sanitary manner.

The particular method of using my improved molds as above described is not limited to the production of frozen food products, but may be also used in the same manner to produce desserts of gelatin and the like.

I claim:

1. The method of forming an edible article which comprises inserting a pre-determined amount of material into a mold and forming therefrom a cup-shaped layer reaching to a height below the top of the mold, causing said layer to congeal, inserting a different material into the congealed layer and forming therefrom an inner cupshaped layer with a flange extending outwardly over the top of the congealed layer, causing said inner layer to congeal, inserting a core material in said inner layer, placing a pre-congealed plate of material into engagement with said core material and flange, and then causing said core material to congeal.

2. The method of forming a frozen article of edible material which consists of placing edible material in a substantially flowable state into a mold to a predetermined level, then inserting a first cavity forming member over said mold, freezing said material, then removing the said first cavity forming member and filling the cavity formed thereby with a contrasting edible material to a predeis then placed upon the top of the mold and the entire 30 termined level, then inserting a second cavity forming member into said mold, freezing said contrasting material, then removing the said second cavity forming member and filling the cavity formed thereby with another contrasting edible material to form a core for said article, then placing over said core forming material a prefrozen plate of edible material contained in a plate mold, and then freezing the said core with the plate thereon to unite the said plate with the material in the mold.

3. The method of forming an edible article which consists of placing edible material in an outer mold, then placing an inner mold in said material and forming against the wall of the outer mold a shell of said material with a cavity therein, then causing said shell to congeal, then removing the inner mold, then placing edible core material in the cavity of said shell, then placing a precongealed plate of edible material in a plate mold over the core material by inverting the plate mold over the outer mold, and then causing the said core material to congeal

and thereby securing the plate to the article.

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