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CONFECTION FORMING DEVICE

Filed May 16, 1932

Fig. 1

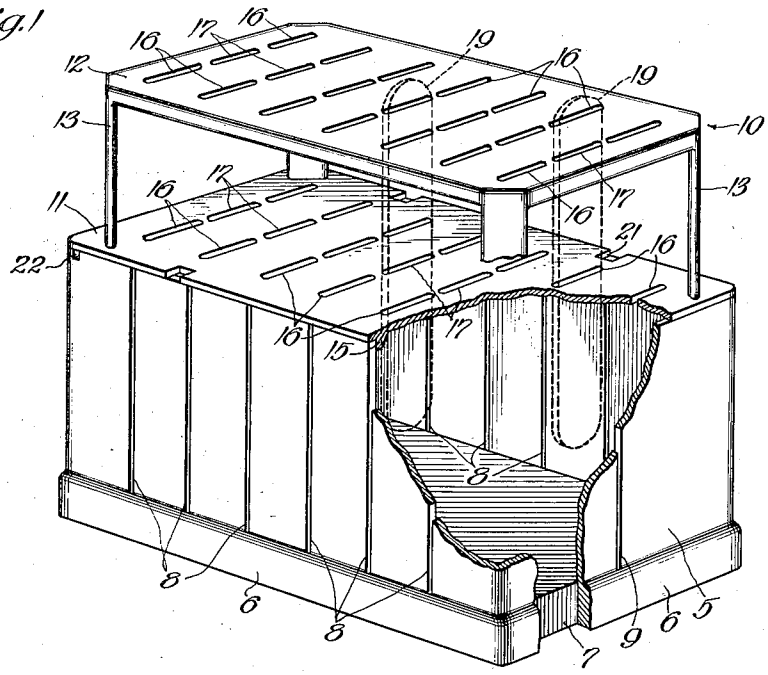
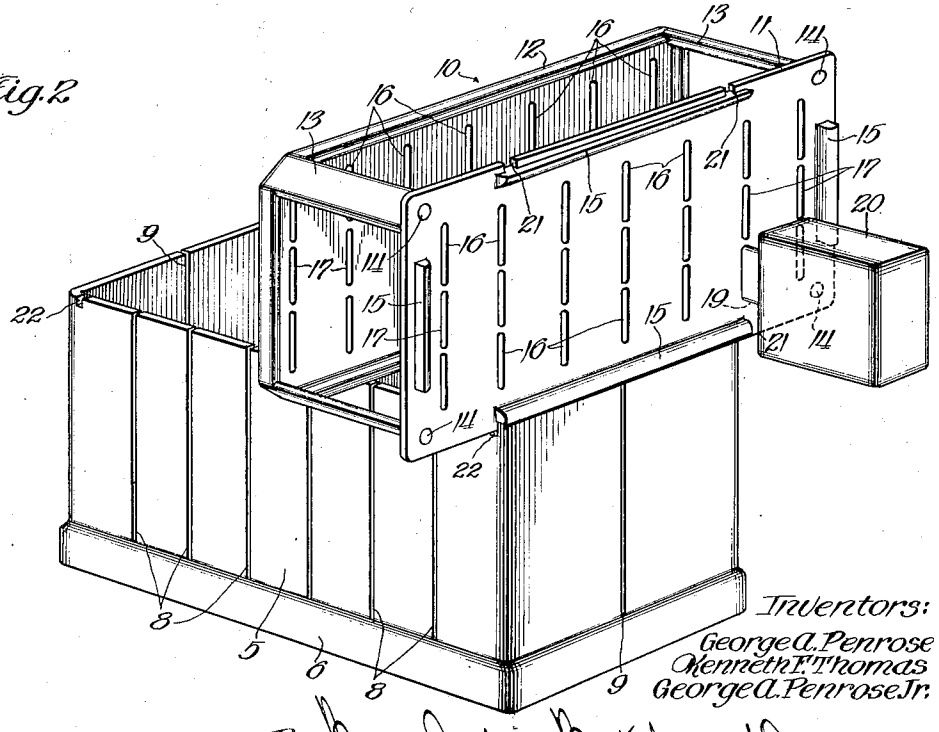


Fig. 2



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CONFECTION FORMING DEVICE

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7 Claims. (Cl. 107—8)

This invention relates to a confection forming device, and more particularly to a device of this type for determining the size of the individual confection articles, which device is provided with guiding means for permitting holding members to be secured in each of the articles for facilitating handling of the article and for supporting the article in position after a coating has been applied thereto and while the coating is hardening.

In its preferred embodiment, the invention is disclosed in connection with the formation of confection articles of the nature of ice cream, ices and the like, but it is to be understood that the invention may be used in connection with other types of confections.

In the formation of such articles, we provide a guide or gauge, of box-like construction adapted to fit over a confection of corresponding shape and having kerfs or knife guides for use in slicing the confection into accurate sizes. Upon this guide is positioned a holder having a plurality of aligned passages extending therethrough and adapted to receive paddle-shaped holding members or handles for the cut confections. These members are forced downwardly into engagement with each of the confection articles, and are supported thereby. The holder is then removed, and the gauge is removed, and the individual article can then be handled by means of the paddle member, the confection adhering thereto. It is customary, in forming confections of this type, to coat each of them with an exterior layer of chocolate, or similar coating, which provides a relatively hard surface and also increases the confection value of the article.

During this coating process, the paddle, with the adhering confection, must be supported in free position until the coating has hardened or congealed. The holder of the present invention is adapted to be disposed sidewise upon the top of the gauge, and in this position the handle portion of the paddle member may be inserted into the aligned passages of the holder to support the article in position during hardening of the coating.

We also preferably provide a spacing block upon which the confection is disposed, the gauge then being placed over the confection and block, the block spacing the confection from the bottom of the gauge and raising it above the lower end of the aligned kerfs or knife-slots, which slots receive the slicing knife for slicing the confection to the desired sizes. The gauge also is provided with a pair of oppositely disposed slots normal to the slots previously described, in order to form articles of half the size formed by the use of only the first mentioned slots.

The guide gauge and the holder are formed of light metal castings, such as aluminum or the like, the holder being formed of a lower and an upper shelf member, the upper shelf member being spaced from the lower member by extending legs formed integral therewith and riveted to the lower member.

Other objects and advantages of the present invention will appear more fully from the following detailed description, which, together with the accompanying drawing, will disclose to those skilled in the art the particular construction and operation of a preferred form of our invention.

In the drawing:

Figure 1 is a perspective view of the confection forming device disposed in position to receive a plurality of paddle members for insertion into the confection; and

Figure 2 is a perspective view showing the holder disposed sidewise upon the gauge, in order to form a support for the paddles having the confection articles adhering thereto, while the coating which has been applied to the articles is congealing.

Referring now in detail to the drawing, the guide or gauge for forming the individual confection articles is preferably of box-like formation, and is of a size to receive the ordinary type of ice cream brick or the like. It is obvious that various sizes may be made for receiving various sizes of confections. This guide or gauge is indicated by the reference numeral 5. The base thereof is beaded, as indicated at 6, and a spacing member 7 formed of wood or similar material, adapted to support the confection, is engaged by the lower portion of the guide 5, and extends upwardly a sufficient distance to provide a plane surface above the lower ends of the slots 8 formed in the side walls of the guide.

The slots 8 are arranged in spaced relation along each of the extending side walls of the guide or gauge 5, and are disposed in opposite alignment so as to provide guiding means for a slicing member to be forced downwardly therethrough in order to slice the confection into a predetermined number of lateral portions. A single slot 9 is formed in the center of each of the end walls of the gauge 5, and is for the purpose of subdividing the lateral portions formed by the slicing member traversing the slots 8.

The holder is indicated generally by the reference numeral 10, and comprises the lower shelf portion 11 and the top shelf 12, the shelf 12 being provided with a plurality of integral legs 13 which space the shelf 12 from the shelf 11, the legs 13 having projecting rivet portions 14 which extend through suitable openings in the lower shelf and which are riveted upon the under surface of the shelf 11 in order to secure the shelf 12 thereto. The lower shelf 11 is provided, on its under surface, with a plurality of projecting lug portions 15, which are adapted to fit against the inner surface of the gauge 5 to position the lower shelf 11 thereupon and for preventing any lateral shifting thereof.

The upper shelf 12 and lower shelf 11 are provided with three rows of spaced aligned slots, indicated by the reference numerals 16 and 17, the slots 16 being disposed at an opposite side of the center row of slots indicated at 17. These slots are positioned so as to be spaced between the vertical slots 8 formed in the gauge 5, and receive paddle members 19, these members 19 being shown in dotted lines in Figure 1 and extend through the slots and enter into the interior of the gauge 5 for the purpose of entering the individual confection articles, the articles adhering to the surface of the paddles 19 to facilitate handling thereof.

When the confection placed in the gauge 5 is sliced only laterally, the center row of slots 17 receive the paddle members, there being a paddle member for each of the laterally sliced articles. However, when the confection is sliced both laterally and longitudinally, a double row of paddles inserted in the slots 16 is provided, each of the confection articles being then only one-half the size of the articles when sliced laterally. After the paddles have been inserted into the confection, the upper holder 10 may be removed, the paddles remaining in position because of the alignment of the slots upon the upper and lower shelf members 12 and 11. The confection is then sliced into individual portions, and the gauge 5 is removed, leaving the portions with the paddles inserted therein resting upon block 7. Each of the individual confection articles may then be handled by manipulation of the corresponding paddle member 19.

The confection articles are then dipped into chocolate or similar coating material, and the holder 10 is then positioned as shown in Figure 2 for supporting the paddle members 19, which hold the confection article, indicated at 20, while the coating is congealing. The holder 10 is positioned upon the upper surface of the gauge 5 by providing a pair of recesses or cut-out portions 21 spaced laterally near the ends of one or more of the projecting lugs 15. These recesses are adapted to engage in slots 22 cut in the top portions of the walls of the gauge 5, and downward movement of the holder 10 is limited by engagement of the lug 15 upon the top of the wall, as indicated in Figure 2. This serves to secure the holder 10 against lateral displacement upon the gauge 5, and the engagement of the slots and the lug 15 prevents upsetting of the holder while in supporting position for holding the individual confection article while the coating thereon is congealing. This saves the time of the operator, who otherwise would have to hold the article until the coating is congealed.

It is to be understood that we may reverse the position of the guide holder, and, since the upper shelf 12 is of smaller area than the area of the gauge 5, the holder can be nested within the gauge, and the gauge then turned over on its side to perform the same function as the embodiment of the device shown in Figure 2, in order to hold the confection articles while the coating is congealing.

It is therefore apparent that we have provided a confection forming device which enables the formation of various sizes of confection articles, provides a holder for permitting the insertion of paddle handle members into each of the articles, and also provides a support for holding the confection article in proper position during congealing of the outer coating applied thereto. The gauge and holder, being formed of light weight metal, such as aluminum or the like, are relatively economical to form, being cast into the proper shape, and the entire device is simple and compact and may readily be kept clean.

We do not intend to be limited to the exact details shown and described in connection with the preferred embodiment of our invention illustrated in the accompanying drawing, but only in so far as defined by the scope and spirit of the appended claims.

We claim:

1. In a device of the class described, a rectangular box-like gauge adapted to receive a confection and provided with means for determining the division of said confection into a plurality of individual confection articles, a holder disposed upon the upper surface of said gauge and provided with a plurality of aligned slots disposed in spaced relation to said determining means, said slots being adapted to receive paddle members for insertion into each of said confection articles, and means carried by said holder for disposing said holder laterally across said gauge, with said slots aligned in a horizontal direction to serve as supports for the paddle members during further treatment of said confection articles.

2. In combination, a rectangular box-like gauge having vertically extending side walls provided with a plurality of oppositely aligned slots, and a guide holder comprising a pair of parallelly spaced shelves normally adapted to be disposed horizontally upon said gauge, said holder having lugs on the under surface of one of said shelves for preventing lateral displacement thereof when positioned upon said gauge, and means for securing said holder with its shelves in vertically extending position on said gauge.

3. In combination, a rectangular box-like gauge having vertically extending side walls provided with a plurality of oppositely aligned slots, and a guide holder comprising a pair of parallelly spaced shelves adapted to be disposed horizontally upon said gauge, said holder having lugs on the under surface of one of said shelves for preventing lateral displacement thereof when positioned upon said gauge, and recesses formed adjacent the ends of one of said lugs for securing said holder with its shelves in vertically extending position on said gauge.

4. In combination, a rectangular box-like gauge having vertically extending side walls provided with a plurality of oppositely aligned slots, a guide holder comprising a lower shelf having lugs extending from one surface thereof for securing said shelf over the top of said gauge, and an upper shelf having integrally extending legs riveted to said lower shelf for spacing said shelves.

5. In combination, a rectangular box-like gauge having vertically extending side walls provided with a plurality of oppositely aligned slots, a guide holder comprising a lower shelf having lugs extending from one surface thereof for securing said shelf over the top of said gauge, an upper shelf having extending legs secured to said lower shelf for spacing said shelf, and means for securing said holder in sidewise position upon said gauge.

6. In combination, a rectangular box-like gauge having vertically extending side walls provided with a plurality of oppositely aligned slots, a guide holder comprising a lower shelf having lugs extending from one surface thereof for securing said shelf over the top of said gauge, an upper shelf having extending legs secured to said lower shelf for spacing said shelf, and means formed in said gauge and in said holder for securing said holder in sidewise position upon said gauge.

7. In combination, a rectangular box-like gauge having vertically extending side walls provided with a plurality of aligned slots, a guide holder having means extending from the lower surface thereof and engaging within the upper defining edges of said gauge to secure said guide holder in aligned position thereon, and guiding means carried by said guide holder and extending vertically above said lower surface of said holder in alignment therewith.

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