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2,285,180

BUTTER CHIP MAKER ATTACHMENT

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Fig. 1.

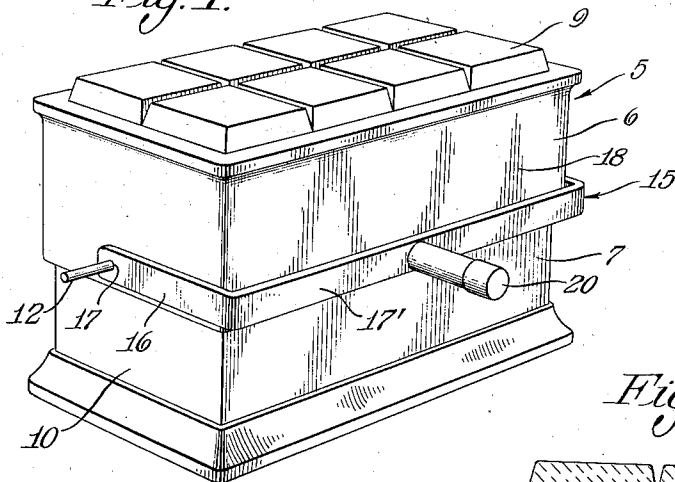


Fig. 2.

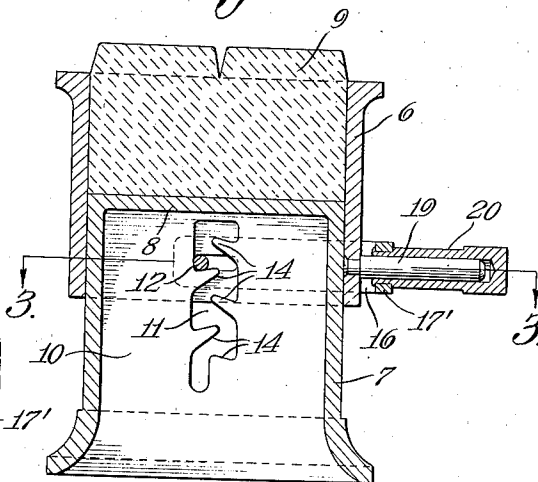
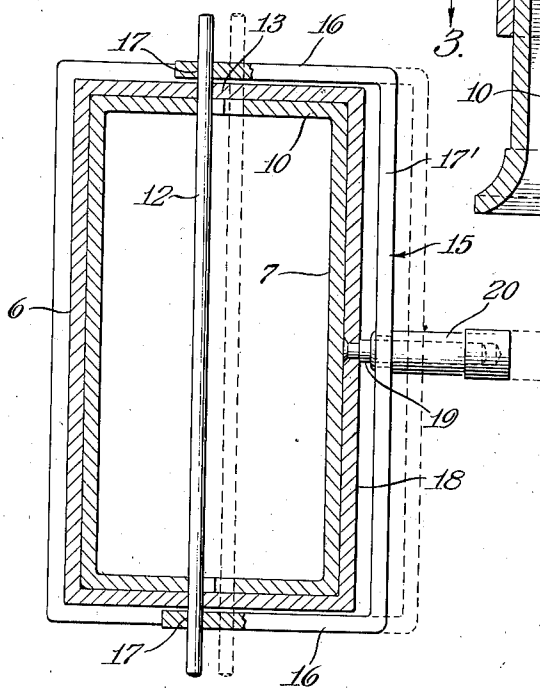


Fig. 3.



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BUTTER CHIP MAKER ATTACHMENT

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Application July 28, 1941, Serial No. 404,402

3 Claims. (Cl. 31-42)

The present invention relates to improvements in butter chip making apparatus and is especially designed for use in connection with the apparatus disclosed in my Patent No. 2,193,013 of March 12, 1940.

An important object of the invention is to provide a device that will produce butter in chip form and simultaneously ornament and/or emboss each formed chip.

In accordance with the above identified patent, there is provided an apparatus which includes a pair of frame members movable relative to each other, one of said frame members forming with the upper portion of the other frame member a receiving chamber for butter in print or bulk form, the closure for said chamber embodying means for ornamenting one surface of the print of butter and simultaneously therewith forming longitudinal and transverse cuts across said print. The patent further includes a specially devised means whereby one of the frames is moved a predetermined distance relative to the other frame to expose or project the ornamented surface above the butter receiving chamber, whereby said surface can be removed. This means involves the use of a transversely extending rod that is supported on shoulders formed in stepped relation on each end wall of the innermost frame. The transversely extending rod projects beyond each end of the frames when in assembled relation and each projecting end is adapted to be manually engaged for movement downwardly on the shoulders.

In accordance with the present invention, there is provided a handle which is associated with the transversely extending rod whereby a more even and rapid movement of the latter is accomplished when moving one of the frames a predetermined distance relative to the other frame for exposing or projecting the ornamented and cut surface.

The invention will be fully and comprehensively understood from a consideration of the following detailed description when read in connection with the accompanying drawing which forms a part of the application.

In the drawing:

Figure 1 is a perspective view of a butter chip forming apparatus with the improvement in use therewith.

Figure 2 is a vertical sectional view thereof.

Figure 3 is a longitudinal sectional view taken substantially on line 3-3 of Figure 2.

Referring to the drawing for a more detailed description thereof, the improved apparatus is generally designated by the reference numeral 5

and includes upper and lower substantially rectangular shaped frames 6 and 7 respectively. In view of the comprehensive illustration and description embodied in the above identified patent, it is not believed necessary to minutely describe the structural details of the respective frames. It is to be understood, however, that the inner frame 7 is formed with a surface 8 on which is supported the butter 9, said butter to be in either print or bulk form. The inner frame 7 forms with the upper portion of the frame 6 a receiving chamber for the butter.

As in my patent, each end wall 10 of the inner frame 7 has a series of angularly disposed communicating slots 11, it being understood that the slots in each end wall are in alignment. The frame 6 is adjustably held relative to the frame 7 by means of a rod 12 which extends transversely through aligned openings 13 formed in each end wall of the outer frame 6, with both ends thereof projecting beyond said frames. In the formation of the end wall slots 11, there are provided opposed shoulder portions 14 arranged in staggered relation to provide supporting areas for the rod 12. From an inspection of Figure 2 of the drawing, it will be observed that the shoulder ends are only close enough to insure seating of rod 12 in its downward operation, yet said shoulder portions and the slot providing a free path of movement for said rod in a vertical direction. With the rod 12 resting upon the topmost shoulder 14, an entire print of butter may be accommodated within the butter receiving chamber. After the top surface has been embossed and cut in the manner described in my patent, the rod 12 is moved from the topmost shoulder portion downwardly to the adjacent shoulder portion. This projects butter above the frame 6 for removal of the butter patties. This procedure is followed until the entire print or bulk of butter has been made into chip form, with the rod 12 travelling downwardly on the successive shoulder portions 14.

As aforeindicated, it has previously been necessary for the operator of the butter chip maker to engage by hand each projecting end of the rod 12 in order to move it downwardly on the shoulders. In accordance with the present invention, there has been designed a handle member generally designated by the reference numeral 15. The handle 15 is of U-form including leg portions 16 which lie adjacent the end walls of the outer frame 6 and which are formed with opposed openings 17 through which the rod 12 extends. The leg portions 16 are united by the

integral bar 17' which normally lies adjacent one side wall 18 of the outer frame 6. A pin 19 extends from the side wall 18 and is positioned adjacent the lower end thereof, said pin forming a guide for the sleeve 20 which sleeve is welded or otherwise secured intermediate the ends of the bar 17'. By this construction, actuation of the rod 12 is materially facilitated as said rod is moved downwardly to the successive shoulder portions. In Figure 3 of the drawing there is illustrated two positions of the rod 12 and the handle 15. In order to effect movement of the rod from the full line to the dotted line position shown, the operator engages the sleeve 20 and urges the same outwardly on the pin 19 and since the bar 17' and arms 16 are united, the rod 12 will be caused to be moved downward from one shoulder portion 14 to the lower succeeding shoulder portion. The operation is then reversed in order to move the rod to the next lower succeeding shoulder portion, it being necessary to move the sleeve 20 inwardly on the pin 19 to return the several parts to the full line position shown in Figure 3.

From the above description when taken in connection with the accompanying drawing, it will be readily apparent that there has been provided a novel means for actuating the rod 12, so as to assure its properly resting on each shoulder portion of the slot 11. The upper frame 6 will at all times be maintained in a proper position relative to the lower frame 7 so that removal of the formed butter patties can be accomplished with a minimum amount of time and effort. Use of the handle 15 relieves the necessity of the operator engaging by hand the opposed ends of the rod 12 in order to effect its downward travel through the slot 11.

Also it will be understood, of course, by those skilled in the art that variations in the hereinabove described device involving the substitution of substantial equivalents for the devices described are intended to be comprehended within the spirit of the present invention and that the invention is capable of extended application and is not confined to the exact showing of the drawing nor to the precise construction described and, therefore, such changes and modifications may

be made therein as do not affect the spirit of the invention nor exceed the scope thereof as expressed in the appended claims.

What is claimed is:

1. A butter chip maker comprising in combination, a frame, a second frame slidably engaging the walls of the first frame, said second frame forming with an upper portion of the first frame a receiving chamber for a print of butter, a transverse rod extending through aligned openings formed in each end of said frame for adjustably supporting said second frame in varying position relative to said first frame, a pin extending from one wall of said second frame, and means slidably disposed on said pin for actuating said rod to vary the size of the receiving chamber.

2. A butter chip maker comprising in combination, a frame, a second frame slidably engaging the walls of the first frame, said second frame forming with an upper portion of the first frame a receiving chamber for a print of butter, a transverse rod extending through aligned openings formed in each end of said frames for adjustably supporting said second frame in varying position relative to said first frame, a substantially U-shaped member carried by said second frame and connected to said transverse rod, and means carried by said second frame for guiding said U-shaped member as said transverse rod is actuated to vary the size of the receiving chamber.

3. A butter chip maker comprising in combination, a frame, a second frame slidably engaging the walls of the first frame, said second frame forming with an upper portion of the first frame a receiving chamber for a print of butter, a transverse rod extending through aligned openings formed in each end of said frames for adjustably supporting said second frame in varying position relative to the first frame, a substantially U-shaped member carried by the second frame and connected to said transverse rod, a pin fixed to and extending laterally from the second frame and through the bight portion of said U-shaped member, and a sleeve fixed to said bight portion and slidably mounted on the pin for actuating said rod to vary the size of the receiving chamber.

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