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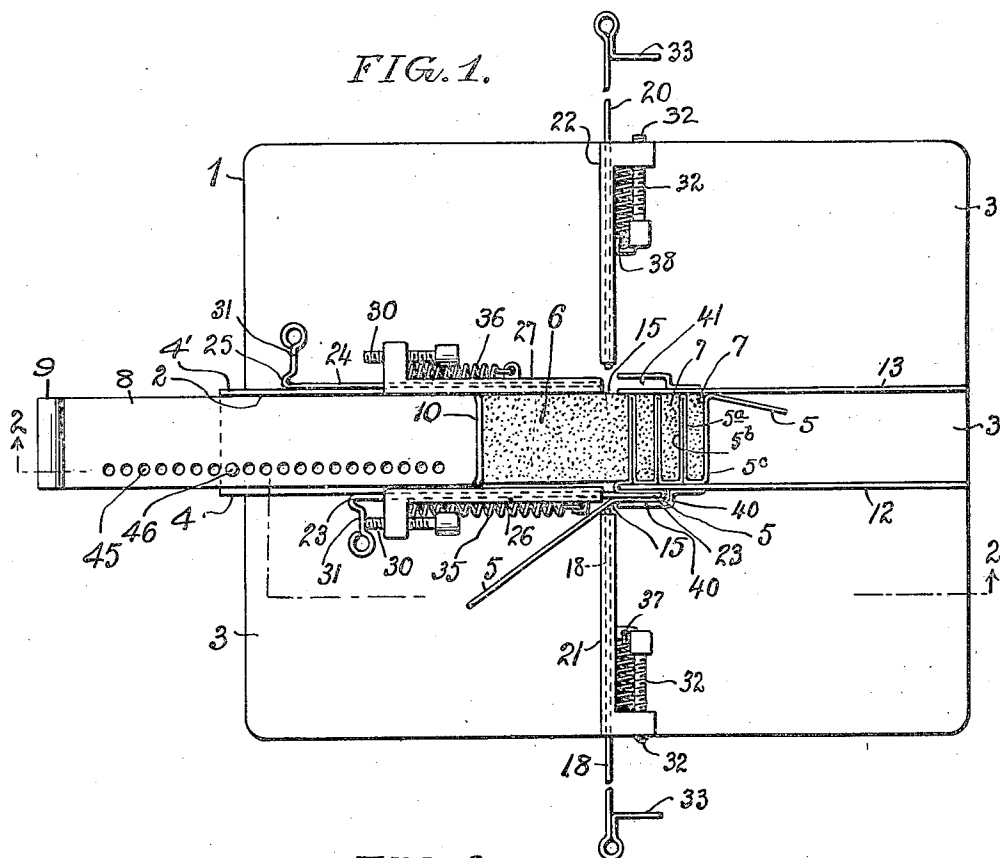
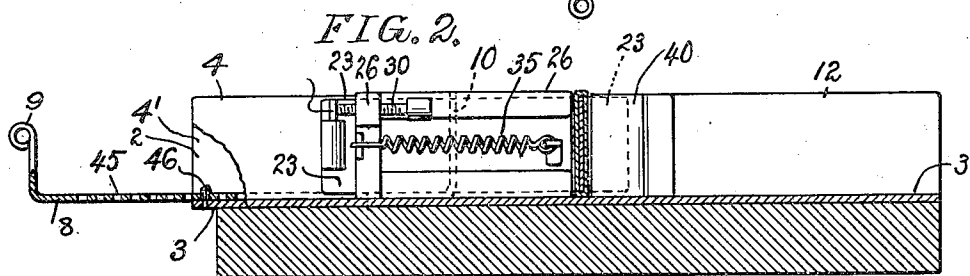
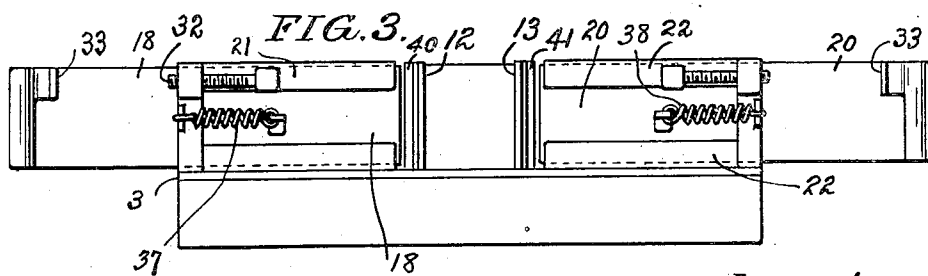
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1,975,936

METHOD AND APPARATUS FOR CUTTING AND WRAPPING BUTTER

Original Filed July 24, 1928

2 Sheets-Sheet 1



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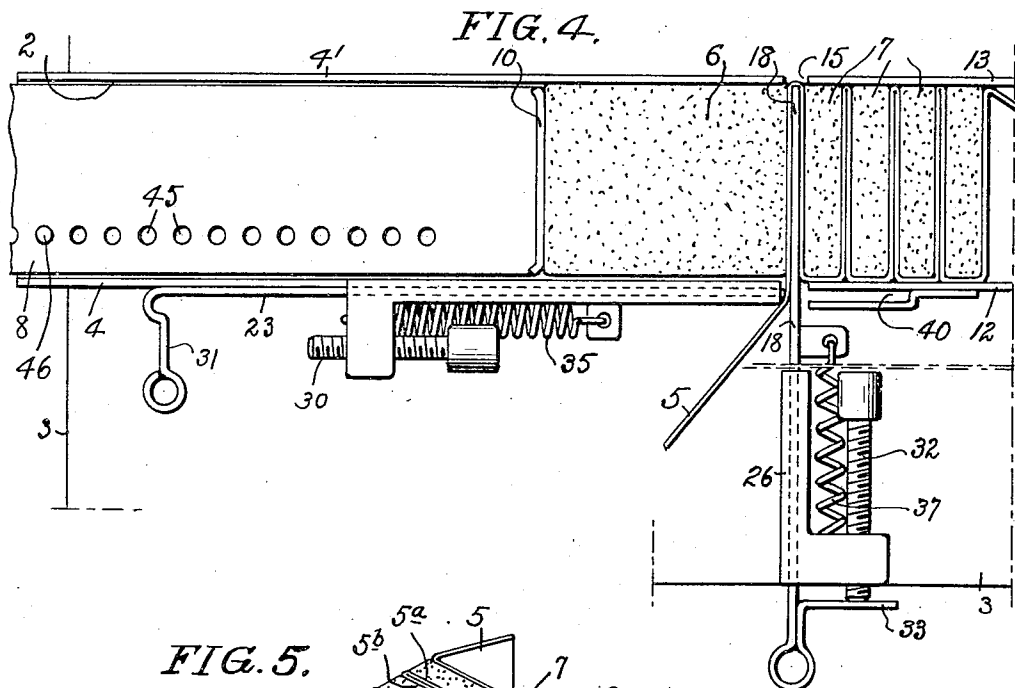
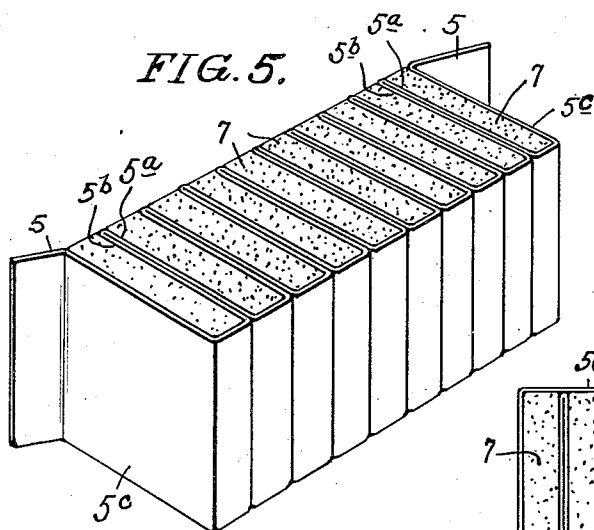
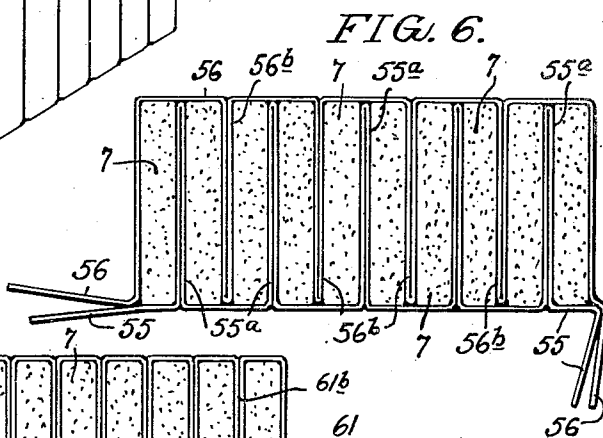
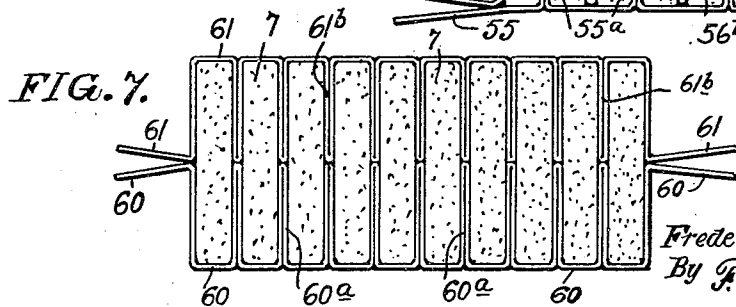
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METHOD AND APPARATUS FOR CUTTING AND WRAPPING BUTTER

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2 Sheets-Sheet 2.



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UNITED STATES PATENT OFFICE

1,975,936

METHOD AND APPARATUS FOR CUTTING
AND WRAPPING BUTTER

Frederick C. Goodwin, Los Angeles, Calif.

Substitute for application Serial No. 295,009, July
24, 1928. This application April 30, 1934, Serial
No. 723,220

7 Claims. (Cl. 93—2)

My invention relates to the method and apparatus for cutting and wrapping butter and the like, and particularly relates to cutting and wrapping butter in pieces suitable for serving in individual portions.

The object of my invention is to provide a method of cutting the butter into small portions and separating the portions by inserting folds of paper between the same; a further object is to provide a wrapper for the block of butter, which latter is cut into individual portions and the wrapper is so formed that folds of the wrapper will separate the portions while the shape of the block of butter is retained by the wrapper; a still further object is to provide a wrapper for separating the portions of butter by a continuous strip of paper having folds positioned between the portions whereby the strip of paper may be extended by pulling upon the ends thereof when it is desired to separate the portions of butter; and a still further object is to provide a suitable apparatus for carrying out my novel method of cutting and wrapping butter, which will be more fully hereinafter described and claimed.

Referring to the accompanying drawings Fig. 1 is a plan view of one form of apparatus adapted for carrying out my invention; Fig. 2 is a vertical section on line 2—2 Fig. 1; Fig. 3 is an end elevation of Fig. 2; Fig. 4 is an enlarged plan view of one portion of the apparatus, shown in Fig. 1, illustrating another step in my novel method of wrapping butter; Fig. 5 is a perspective view of a block of butter cut into individual portions and encased in my novel form of wrapper; Fig. 6 is a plan view of a wrapper formed of two strips of paper for encasing the individual portions of butter; and Fig. 7 is a still further modification of my invention in which the folds of the strips of paper extend to the center line of block of butter instead of entirely through the block.

In the drawings in which like reference characters refer to like parts 1 represents an apparatus for carrying out my invention and comprises a bed plate 3 on which is secured a guide 2 formed by plates 4 and 4' between which a block of butter 6 is adapted to be advanced by a movable tray 8, having a handle 9 for moving the tray. A push plate 10 is secured to the tray and is adapted for moving the block of butter between the guides 4 and 4'. Said guides 4 and 4' are in alignment with guides 12 and 13 and have transverse vertical spaces or openings 15 formed between the sections of the guides for the

passage of the knives 18 and 20 located upon opposite sides of the guides and slidably mounted in bearings 21 and 22 secured upon the bed plate 3.

Blades 23 and 24 for folding the paper 25 are mounted in vertical bearings 26 and 27, extending parallel with the guides 4 and 4' and at right angles to the cutting knives 18 and 20. The bearings 26 and 27 for the folding blades 23 and 24 are provided with adjustable stop-screws 30, against which the stop-plates 31 on the blades strike for limiting the movement of the latter. The bearings 21 and 22 for the cutting knives 18 and 20 are also provided with stop-screws 32 which engage stop-plates 33 mounted upon the knives and are adapted for limiting the distance the knives may enter the block of butter 6. Springs 35 and 36 having one end secured to the bearings 26 and 27 and the opposite end secured to the blades 23 and 24 respectively, are provided for withdrawing the blades into a normal position, in which the blade 24 is shown in Fig. 1. Similar springs 37 and 38 are provided for withdrawing the cutting knives 18 and 20 to the normal position, shown in Fig. 1. Upon the guides 12 and 13 are provided pockets 40 and 41 to receive the ends of the folding blades 23 and 24 when they are advanced, to the position which the blade 23 occupies in Fig. 1.

The tray 8 is provided with a series of holes 45 extending lengthwise thereof, and the guide 2, formed by the plate 4 and 4' is provided with a pin 46, shown in Figs. 1 and 2, which pin is adapted to enter the holes 45 in the tray and hold the tray from moving when the cutting knives are being inserted in the butter. The tray 8 may be lifted by means of the handle 9 sufficiently to withdraw the pin 46 from the holes 45 and allow the tray to be advanced step by step according to the distance between said holes, thus ensuring a uniform size of all the individual portions 7 when cut.

The apparatus shown in Fig. 1 is a double machine adapted for using two strips of paper 5, or it may be operated by using only one strip of paper, as shown in Fig. 1 of the drawings.

For the purpose of illustrating one form of wrapping butter, only the lower portion of the machine shown in Fig. 1 will be included in the following description of the method for forming the wrapper shown in Fig. 5. A strip of paper 5 is inserted into the vertical opening, or slot 15, formed between the two sections 4 and 12 of the guides. A block of butter 6 is placed in the guide 2 in front of the plate 10 and the tray advanced

to a point where it is desired to have the knife 18 enter the butter and cut the block transversely to form an individual portion 7. The folding blade 23 is now advanced into the position shown in Fig. 1, so that the blade 23 will force the paper into the pocket 40, thus providing sufficient slack in the strip of paper to allow the cutting knife 18 to be advanced into the butter carrying the strip of paper simultaneously with the knife. The cutting knife 18 is advanced the full width of the block of butter, then the knife is withdrawn leaving the folded paper positioned between the block 6 and the portion 7.

The tray 8 is again advanced to a position for the cutting knife to make the second insertion into the block of butter. These operations are repeated until the entire block of butter is cut into individual portions, thus forming the wrapped package, illustrated in Fig. 5.

The wrapper, as illustrated in Fig. 5, consists of the strip of paper 5 which is formed with the sections 5a and 5b folded upon themselves and positioned between the portions 7 of the butter, thus separating the latter by two thicknesses of paper. The strip 5 is about the width of one side of the block of butter and thus covers one side of the block of butter after it is cut into the portions 7. A single thickness 5c of the strip 5 extends over the extreme end portions of the block and projects beyond the same a sufficient distance to permit the ends of the strip to be readily grasped between the fingers and pulled lengthwise to straighten out the strip, so that all the separate portions 7 of butter will be distributed and lie flat upon the strip of paper throughout the length of the latter, from which the portions may be readily removed for serving.

Fig. 6 illustrates a wrapper in which two sheets of paper 55 and 56 are used. Said strips are inserted or applied to the block of butter by the entire apparatus shown in Fig. 1. One strip of paper being located on one side of the block of butter and the other strip located upon the opposite side thereof. By operating the cutting knives 18 and 20 alternately, as the tray 8 is advanced, and also operating the folding blades 23 and 24 to provide said strips with sufficient slack to form the folds 55a and 56b, the block of butter will be cut into individual portions with the folded portions 55a and 56b, of the two strips of paper, inserted between alternate portions of the butter.

Fig. 7 illustrates a form of wrapper in which two strips of paper 60 and 61 are used and the folds 60a and 61b are extended only to the center line of the block of butter. The wrapper shown in Fig. 7 may be readily formed upon the apparatus by adjusting the stop screws 30 to suitable positions which limit the movement of the folding blades 23 and 24 so that when said blades are operated the strips of paper will be folded into the pockets only a sufficient distance to form enough slack in the paper to provide for the insertion of the cutting knives 18 and 20 as far as the center line of the block of butter. In carrying out this form of my invention the knives 18 and 20 are operated simultaneously until their forward edges meet the center of the block of butter. When the knives are withdrawn the tray is advanced to the next adjacent holes in the tray when both cutting blades are again inserted into the butter carrying the folds of paper into the butter. These operations are repeated throughout the length of the block of butter.

In all the forms of my invention illustrated in Figs. 5 to 7 the strip of paper forming the wrap-

per is of the width equal to the width of a block of butter and is intended only to cover one edge and the sides of the individual portions. When two strips of paper are used as shown in Figs. 6 and 7 the opposite edges of the butter are covered by the paper. To remove the cut portions of butter from the paper it is merely necessary to pull the ends of the paper to straighten out the folds and the pieces of butter will arrange themselves in spaced relation to each other throughout the length of the strip, from which they may be rapidly removed when it is desired to serve said portion of butter.

Various changes may be made in the wrapper and in the apparatus for applying the wrapper, other than those shown in the drawings without departing from my invention.

This is a refiled application, and is substituted for my abandoned application No. 295,009 which was filed July 24, 1928.

I claim:—

1. The method of wrapping butter, comprising placing strips of paper upon opposite sides of a block of butter advancing said block the thickness of an individual portion to be cut off the block, forming folds in said strips, advancing knives from opposite sides of said block against said strips forcing the latter into the block, and withdrawing the knives leaving folds of paper between the cut portions of the block.

2. An apparatus for cutting and wrapping material such as butter, comprising a guide to receive a block of said material, said guide having an opening formed in the side wall thereof to receive a strip of flexible wrapping material having its forward end applied to the forward end of said block and movable with the block through said guide, a blade slidably mounted adjacent to the guide for forming a fold in said strip, and a cutting member operatively associated with said block adapted to force said fold into the butter.

3. An apparatus for cutting and wrapping material such as butter, comprising a guide to receive a block of said material, said guide having an opening in the side wall thereof to receive one end of a continuous strip of flexible wrapping material, said strip applied to the forward end of said block and movable with the block in the guide, a cutting member operatively associated with said guide adapted to enter said opening formed in the guide and enter said block transversely, a blade movably mounted adjacent to said guide adapted to form slack in said strip between the cutting member and said block, means for withdrawing said blade to permit the cutting member to force the slack portion of said strip into said block, and means for withdrawing said cutting member leaving a folded portion of the strip in said block.

4. An apparatus for cutting and wrapping material such as butter, comprising a guide to receive a block of said material, said guide having transverse openings formed in opposite sides thereof to receive strips of flexible wrapping material, cutting members operatively associated with said guide adapted to enter said openings from opposite sides of the guide for cutting said block transversely, blades movably mounted adjacent to said guide for forming folds in said strips between the cutting members and said block, whereby the forward movement of the cutting members into said block will carry the folded portions of said strips into the block, and means for advancing said block intermittently

relatively to the movement of said cutting member.

5 5. An apparatus for cutting and wrapping material such as butter, comprising a guide to receive a block of said material, said guide having transverse openings formed in opposite sides thereof to receive strips of flexible wrapping material, cutting members operatively associated with said guide adapted to enter said openings
10 from opposite sides of the guide for cutting said block transversely, blades movably mounted adjacent to said guide for means for forming folds in said strips between the cutting members and said block, whereby the forward movement of the cutting members into said block will carry the
15 folded portions of said strips into the block, stops operatively associated with said cutting members for limiting the distance said cutting members may enter the block, and means for advancing said block intermittently relatively to the movements of said cutting members.
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25 6. The method of wrapping material comprising placing strips of paper upon opposite sides of a block of material, forming a fold in one of said strips, advancing a knife against the folded

portion of the strip forcing the latter into the block, withdrawing the knife leaving the folds of the paper between the cut portions of the block, advancing said block the thickness of an individual portion to be cut off the block, forming a fold in the opposite one of said strips, advancing a knife against the last mentioned folded portion forcing the latter into the block from the opposite side of the latter from the first mentioned strip, withdrawing the last mentioned knife, and leaving the folds of said strips between the alternate cut portions of the block.

7. The method of wrapping material, comprising placing strips of paper upon opposite sides of a block of material, advancing said block the thickness of an individual portion to be cut off the block, forming folds in said strips, advancing knives from opposite sides of said block against said strips forcing the latter into the block to a point adjacent to the center of the block, and withdrawing the knives leaving folds of paper between the cut portions of the block with the folds terminating adjacent to the center of the block.

FREDERICK C. GOODWIN. 100

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