

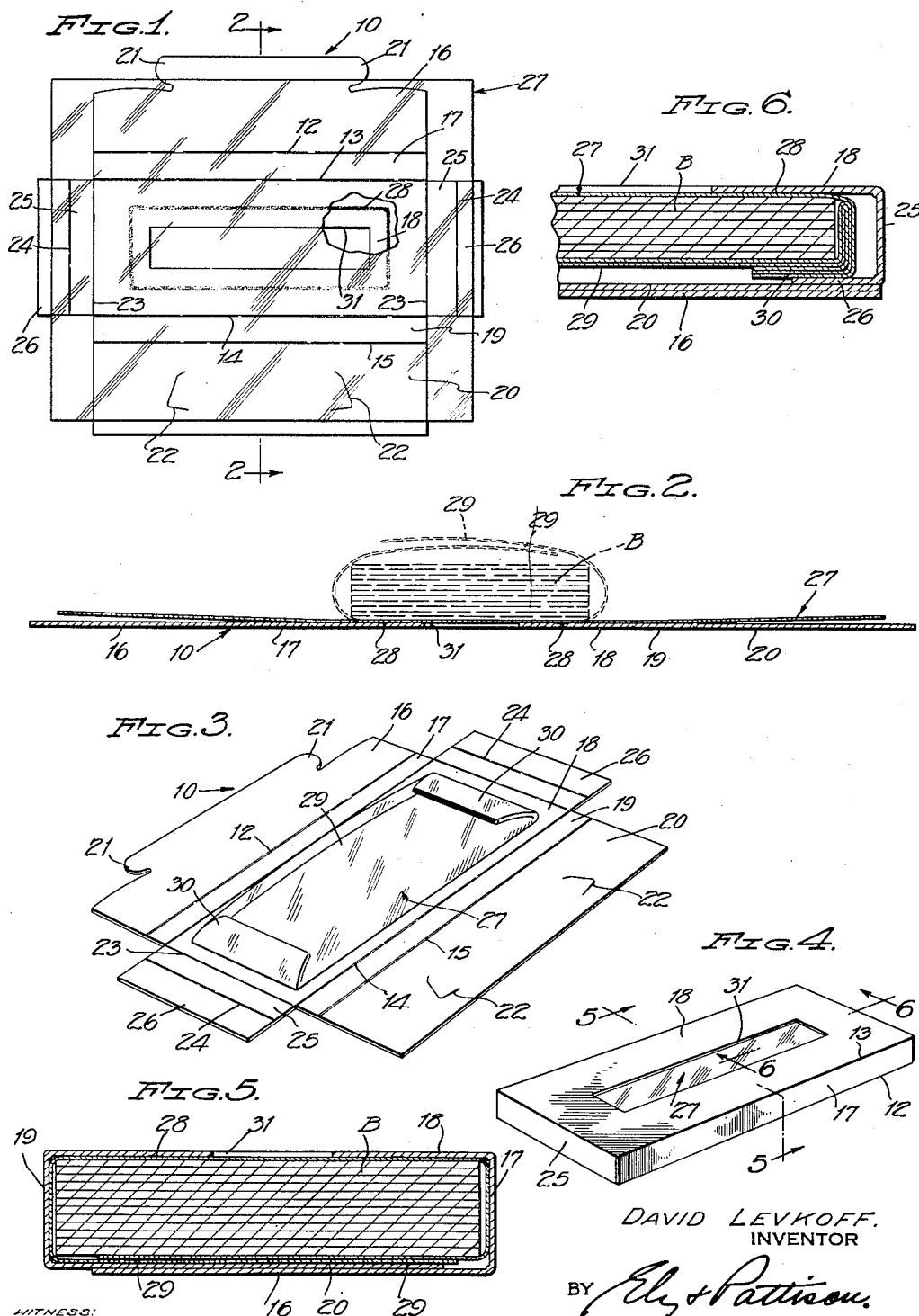
Nov. 9, 1943.

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2,333,943

GREASEPROOF FOLDING BOX

Filed Sept. 7, 1940



WITNESS:
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2,333,943

GREASEPROOF FOLDING BOX

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Application September 7, 1940, Serial No. 355,739

3 Claims. (Cl. 229—14)

This invention relates to improvements in folding boxes, and more specifically to a greaseproof folding box for the packaging of bacon and other greasy food products.

In the hand packaging of sliced bacon and other greasy food products in cardboard cartons or boxes, it is the practice to first, separately wrap the bacon in a greaseproof wrapper; second, fold the box blank to set up position; third, insert the wrapped bacon into the box, and finally close the box. The greaseproof wrapper prevents contact of the greasy bacon with the fibre walls of the box, which otherwise would result in soiling the box due to the inherent tendency of the fibre walls of the box absorbing grease. It is therefore the primary object of this invention to so correlate the greaseproof wrapper with the blank from which the box is formed as to avoid separate handling of the wrapper and the box blank.

Another feature of the invention is to provide a greaseproof folding box in which a greaseproof wrapping sheet is attached to the inner-side of the blank in a manner to enable the operator to successively fold the wrapped sheet about the greasy product to be packaged, and then without loss of time or motion, fold the blank about the wrapped product to box set up closed position. Thus all parts of the absorbent cardboard blank including the edges thereof, are prevented from coming in contact with the greasy product during box or carton packaging thereof.

Other features of the invention will become apparent as the following specification is read in conjunction with the accompanying drawing, in which:

Figure 1 is a plan view of the combined wrapper and box blank in flat unfolded condition and looking at the inside thereof.

Figure 2 is an end elevational view illustrating a stack of sliced bacon placed upon the wrapper and showing in dotted lines the initial folding of the greaseproof wrapper therearound.

Figure 3 is a perspective view of the wrapper completely folded about the stack of bacon.

Figure 4 is a perspective view of the box entirely folded and closed.

Figure 5 is a vertical transverse sectional view on the line 5—5 of Figure 4.

Figure 6 is an enlarged detail vertical longitudinal sectional view on the line 6—6 of Figure 5.

Referring to the drawing by reference characters, the numeral 10 designates a combined inner wrapper and folding box in its entirety. The folding box is of conventional construction, and is formed from a single blank of cardboard 11 of substantially rectangular configuration which is scored longitudinally on suitably spaced parallel lines 12, 13, 14, and 15, to provide suc-

cessively a bottom wall section 16, a rectangular side panel wall 17, a rectangular top wall or center panel 18, a rectangular side panel wall 19, and a substantially rectangular bottom wall section 20. The combined width of the bottom wall sections 16 and 20 is greater than the width of the top wall 18 to enable them to overlap. The bottom wall section 16 is provided with spaced locking tabs 21—21 which enter and interlock with complementary slits 22—22 in the bottom wall section 20 when the blank is folded inwardly on the longitudinal score lines with the bottom wall sections 16 and 20 in lapping engagement. The top wall 18 is provided with an elongated window opening 31 through which the merchandise packed in the folded box may be viewed as will be appreciated hereinafter. The blank 11 is scored transversely at each end thereof on the spaced score lines 23 and 24 to provide a rectangular end wall 25 and a rectangular tuck flap 26.

Overlying the inner side of the blank 11 and substantially covering the entire surface thereof is a greaseproof inner rectangular shaped wrapper 27 preferably made of transparent Cellophane, Pliofilm, or other similar material having like characteristics. After the wrapper 27 has been properly centered with respect to the blank 11, it is secured to the inner side of the top wall 18 by an adhesive substance 28. The adhesive bond between the wrapper sheet and the top wall 18 follows the shape of and is disposed adjacent the walls of the opening 31, thus an adhesive bond area of rectangular shape secures the wrapper 27 to the blank and holds the center portion thereof taut across the window opening 31. The portions of the wrapper outside of the rectangular shaped adhesive area are free to be folded inwardly in a manner presently to be described.

Assume that the inner wrapper and box are in the flat unfolded position as shown in Figure 1 of the drawing, and it is desired to fold it about a sliced bacon or other greasy food product. The operator places the stack of sliced bacon B upon the greaseproof wrapper sheet 27 at a point over the front wall 18 within the confines of the score lines 13, 14, and 23—23. The operator now folds the longitudinal sides of the wrapper sheet inwardly over the stack of bacon B with the longitudinal side portions 29—29 of the wrapper overlapping as shown in dotted lines in Figure 2. The wrapper sheet is now folded within the boundary of the longitudinal score lines 13 and 14, and the operator with both hands, simultaneously folds the ends 30—30 of the partially folded wrapper sheet inwardly as shown in Figure 3. Holding the folded ends 30—30 down, the blank is folded inwardly on the fold lines 14 and 15 to cause the side wall 19 to assume an upstanding

position and to dispose the bottom wall section 20 over the folded wrapper. Next the operator folds the blank on the score lines 13 and 12 to cause the side wall 17 to assume an upstanding position and to cause the bottom wall section 16 to overlap the bottom wall section 20, whereupon the bottom wall sections may be locked by inserting the locking tabs 21—21 into the respective slits 22—22 for interlocking engagement therewith. To complete the folding and closing of the box, the end walls 25 are folded inwardly on the lines 23, and the tuck flaps 26 are folded on the lines 24, the latter being inserted against the inner sides of the bottom wall formed by the locked overlapping bottom wall sections 16 and 20. The box is now completely closed as shown in Figure 4 and by the use of a transparent greaseproof wrapper, the bacon or other contents of the package may be viewed through the window opening 31 for inspection purposes.

It will be noted that during the folding of the inner greaseproof wrapper, no part of the cardboard box may possibly come in contact with the greasy food product being packaged, and that when the box is folded about the wrapped greasy product, there is no chance of the greasy product contacting the cardboard walls or exposed edges of the box. Thus the box will remain clean so far as grease spots caused by the greasy contents of the box is concerned. Also, by adhesively securing the greaseproof wrapper sheet to the box blank, the packaging operator is required to correlate the wrapper and the box blank, thus saving time and labor. By adhesively securing the inner wrapper to the blank prevents accidental shifting of the wrapped product after its enclosure within the folded box, so that printed matter may be placed on the wrapper sheet and kept in registration within the window opening 31.

Whereas I have illustrated the invention associated with a relatively flat conventional folding box, it will be understood that other types of folding boxes may be used, providing it is formed from a flat blank and foldable about the inner greaseproof wrapper attached thereto.

Having thus described the invention, what I claim as new and desire to secure by Letters Patent of the United States, is:

1. A folding greaseproof container comprising in combination, a single blank of cardboard including a rectangular central top wall panel having a window opening provided centrally therein, rectangular side wall panels connected to the longitudinal sides of the top wall panel along hinge scores, rectangular bottom wall panel sections connected to the respective side wall panels along longitudinal hinge scores, said bottom wall panel sections being of a combined width greater than the width of the top wall panel for overlapping when the blank is folded into box set up position, locking tongues provided on the free side edge of one of said bottom wall panel sections, slits provided in the other bottom wall panel section for interlockingly receiving the respective tongues, rectangular end wall panels respectively connected to opposite ends of the top wall panel along transverse hinge scores, tuck flaps connected to the respective end wall panels along transverse hinge scores, a rectangular transparent wrapper sheet of greaseproof material overlying the inner side of the blank and being of a size to substantially overlie the entire

surface of the blank and being centered relative thereto, and a continuous adhesive connection between the inner side of the top wall panel and the adjacent side of the wrapper sheet only, said adhesive connection being disposed adjacent the edges of the window opening for securing the wrapper sheet in taut position over the window opening for closing the same, the remaining portions of the wrapper sheet beyond the zone of the adhesive connection constituting free side and end inwardly foldable wrapper portions.

2. A folding greaseproof container comprising in combination, a single blank of cardboard including a rectangular central top wall panel, rectangular side wall panels connected to the longitudinal sides of the top wall panel along hinge scores, rectangular bottom wall panel sections connected to the respective side wall panels along longitudinal hinge scores, said bottom wall panel sections being of a combined width greater than the width of the top wall panel for overlapping when the blank is folded into box set up position, rectangular end wall panels respectively connected to opposite ends of the top wall panel along transverse hinge scores, tuck flaps connected to the respective end wall panels along transverse hinge scores, a rectangular wrapper sheet of greaseproof material overlying the inner side of the blank and being of a size to substantially overlie the entire surface of the blank and being centered relative thereto, and an adhesive connection between the inner side of the top wall panel and the adjacent side of the wrapper sheet only to provide free foldable side and end portions beyond the zone of the adhesive connection for infolding over the top wall panel when packaging a greasy commodity in the box.

3. A folding greaseproof container comprising in combination, a single blank of cardboard including a rectangular central top wall panel having a window opening provided centrally therein, rectangular side wall panels connected to the longitudinal sides of the top wall panel along hinge scores, rectangular bottom wall panel sections connected to the respective side wall panels along longitudinal hinge scores, said bottom wall panel sections being of a combined width greater than the width of the top wall panel for overlapping when the blank is folded into box set up position, interlocking means provided on the bottom wall panel sections for securing the same in overlapped relation when the blank is folded to box set up position, rectangular end wall panels respectively connected to opposite ends of the top wall panel along transverse hinge scores, tuck flaps connected to the respective end wall panels along transverse hinge scores, a rectangular transparent wrapper sheet of greaseproof material overlying the inner side of the blank and being of a size to substantially overlie the entire surface of the blank and being centered relative thereto, and a continuous adhesive connection between the inner side of the top wall panel and the adjacent side of the wrapper sheet only, said adhesive connection being disposed adjacent the edges of the window opening for securing the wrapper sheet in taut position over the window opening for closing the same, the remaining portions of the wrapper sheet beyond the zone of the adhesive connection constituting free side and end inwardly foldable wrapper portions.

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