

Nov. 18, 1958

R. GUYER

2,860,824

PRODUCT ENCIRCLING BAND

Filed April 2, 1954

2 Sheets-Sheet 1

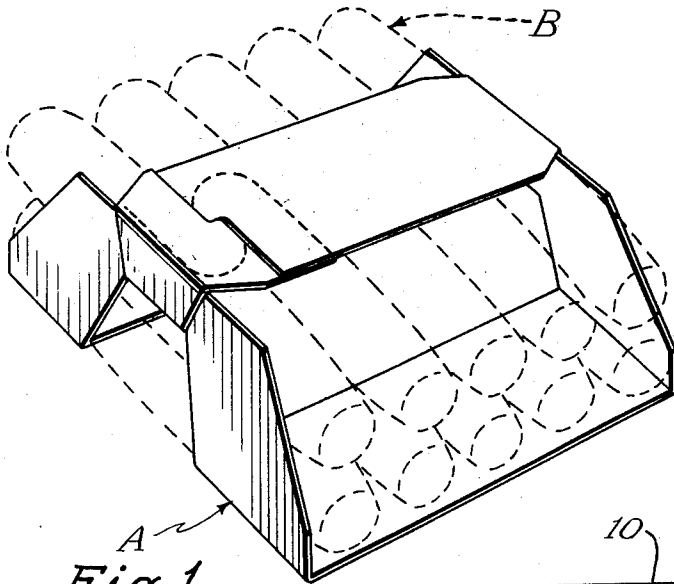


Fig. 1

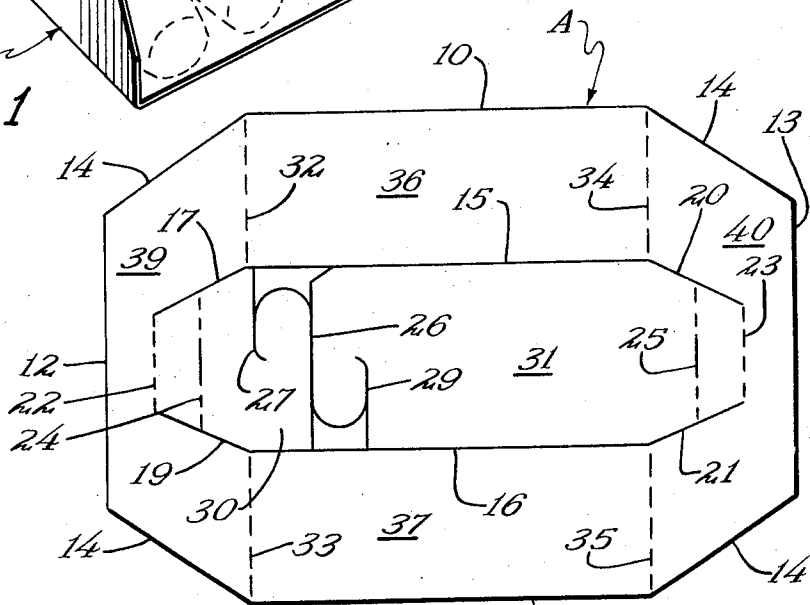


Fig. 2

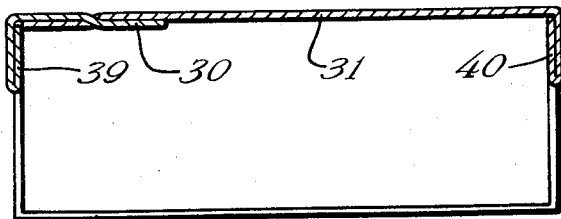


Fig. 3

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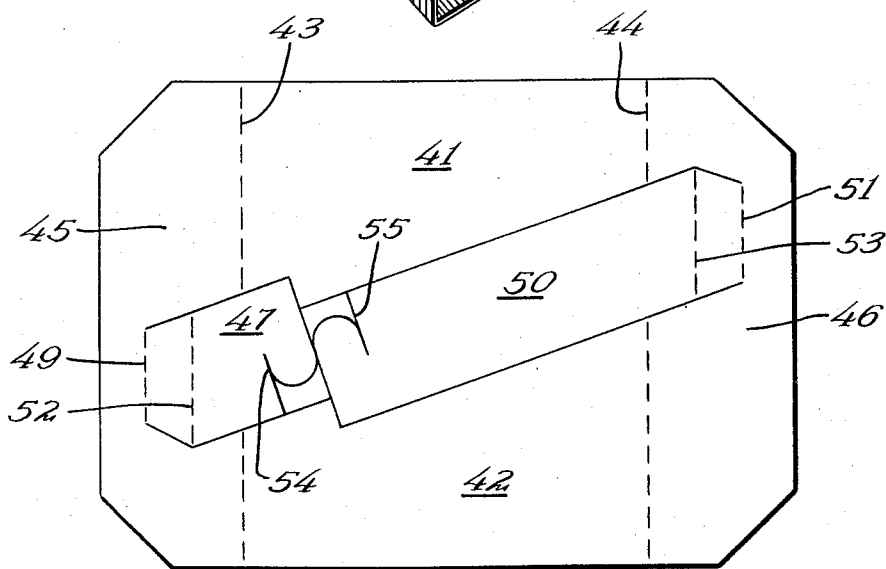
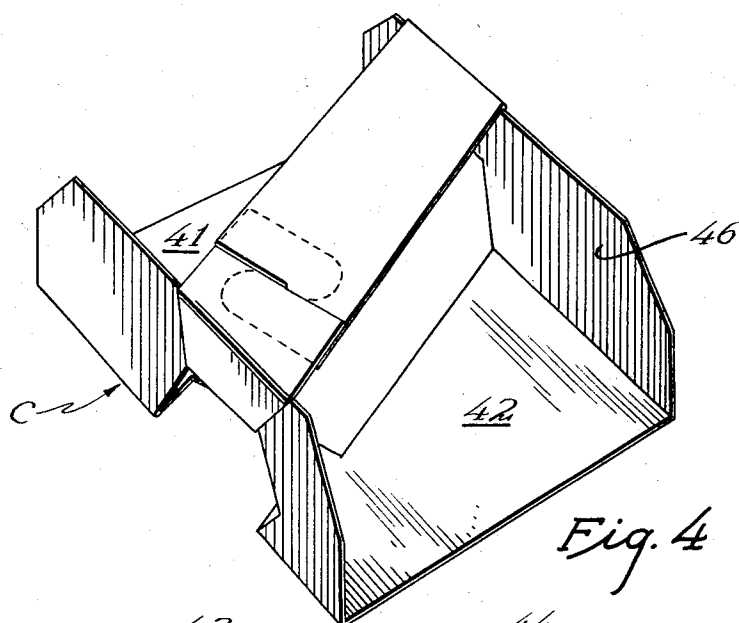
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PRODUCT ENCIRCLING BAND

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5 Claims. (Cl. 229—40)

This invention relates to an improvement in product encircling bands and deals with a paperboard band for encircling a group of frankfurters, sausages or the like.

Products such as sausages or frankfurters are at best often contained within a transparent bag of plastic material or the like each of which contains a predetermined number or weight of the product. Such bags are difficult to handle and to pack so that they display effectively due to the fact that the individual parts nest together and may assume various shapes. In other words packages of this type are almost as difficult to stack properly as bags of powdered or granular material, the uppermost bags tending to conform to the outline of the lower bags.

A feature of the present invention lies in the provision of a product encircling band which may encircle either the frankfurters or sausages in unpacked form or which if preferred may support bags of these products. The advantage lies in the fact that the paperboard band possesses sufficient stiffness to cause the product to be maintained in proper form and so that a number of such packages may be stacked one upon the other while still retaining their neat and attractive form.

An object of the present invention resides in the provision of a band capable of encircling a group of objects such as the products mentioned or others and which are generally rectangular in form so as to confine the product into the generally rectangular shape. As a result the bottom of one package may be placed upon the top of the next and the packages will be neatly stacked.

A further feature of the present invention resides in the provision of a band of the type described which is inexpensive to produce. In order that the cost of the package be maintained at a low percentage of the cost of the product, the bands must be economically produced and must be simple to attach. My band accomplishes these results.

A further feature of the present invention resides in the provision of a product encircling band which provides an advertising display which may advertise the product from practically any side thereof, thus during the display the bands may advertise the name of the producer or the name of the product.

These and other objects and novel features of my invention will be more clearly and fully set forth in the following specification and claims.

In the drawings forming a part of the specification:

Figure 1 is a perspective view of the product encircling band in operation.

Figure 2 is a diagrammatic view of the blank from which the product of Figure 1 is produced.

Figure 3 is a sectional view through the band in product encircling position.

Figure 4 is a perspective view of a modified form of band.

Figure 5 is a diagrammatic view of the blank from which the band of Figure 4 is produced.

The band is indicated in general by the letter A and is designed to encircle a product such as that shown in

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dotted outline at B. The band is formed from a blank best illustrated in Figure 2. The blank of the band A comprises a generally rectangular body of paperboard and the like including parallel side edges 10 and 11 and parallel ends 12 and 13. The corners of the blank may be diagonally cut as indicated at 14 to enhance the appearance of the finished band.

A pair of parallel cut lines 15 and 16 extend between the said edges 10 and 11 and are shown in Figure 2 as being parallel thereto. The cut lines 15 and 16 are shown as having converging continuing cut lines 17 and 19 at one end thereof terminating short of and in spaced relation to the edge 12. These cut lines 15 and 16 are also shown as having continuing cut lines 20 and 21 at the other end thereof, these cut lines 20 and 21 terminating short of, and in spaced relation to, the blank edge 13. A fold line 22 joins the ends of the cut lines 17 and 19 and a similar fold line 23 joins the ends of the cut lines 20 and 21. In preferred form these fold lines 22 and 23 are parallel and are parallel to the blank ends 12 and 13.

While the arrangement described is advantageous from an appearance standpoint and possibly from a structural standpoint it is not necessary that these lines converge and the cut lines at the ends of the cut lines 15 and 16 may be in line with the lines with which they communicate.

A fold line 24 is provided between the cut lines 17 and 19 parallel to the fold line 22 and spaced therefrom a distance equal to or slightly greater than the distance between the fold line 22 and the adjoining edge 12. A similar fold line 25 joins the cut lines 20 and 21 and is also spaced from the nearest fold line 23, a distance equal to or slightly greater than the distance between the fold line 23 and the blank end 13.

The strip defined between the two continuous sets of fold lines is divided along a transverse cut line 26 and interlocking slots 27 and 29 are formed at points spaced from each end of the strips thus formed. The portion of the blank inwardly of the fold line 24 forms one interlocking strip 30 while the portion of the blank between the fold lines inwardly of the fold line 25 forms a second interlocking strip 31.

The portions of the blank on opposite sides of the cut lines described are divided by a pair of aligned fold lines 32 and 33 near the edge 12 of the blank and a parallel set of aligned fold lines 34 and 35 near the opposite end 13 of the blank.

With this arrangement the center portion of the blank is divided into spaced bottom panels 36 and 37 and connected end panels 39 and 40 which may be folded upwardly at right angles to the bottom panels as shown in Figures 1 and 3. The strips 30 and 31 may then be folded outwardly and upwardly so that the areas between the fold lines 22 and 24 and between the fold lines 23 and 25 lie outwardly of, and in surface contact with, the end panels to which they are secured. The strips 30 and 31 may then be engaged by means of the locking slots 27 and 29 to form an endless product encircling band as shown in Figures 1 and 3.

The band C illustrated in Figures 4 and 5 is substantially identical with the structure previously described with the exception of the fact that the band extends angularly across the top of the package. In his arrangement the blank includes spaced bottom panels 41 and 42 connected along parallel fold lines 43 and 44 to end walls 45 and 46 respectively. A band portion 47 is cut from the end panel 45 and a portion of the bottom panel between the bottom portions 41 and 42, the strip being connected to the end panel 45 along a fold line 49. A second strip 50 is cut from the portion of the blank between the bottom panels 41 and 42 and an adjoining por-

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tion of the end wall 46 and is connected to the wall 46 along a fold line 51.

The strips 47 and 51 are somewhat offset as the cut lines separating the side edges of these strips to the remaining structure extend diagonally with respect to the edges of the blank.

The strip 47 is provided with a fold line 52 parallel to and spaced from the fold line 49 while the strip 50 is provided with a fold line 53 parallel to and spaced from the fold line 51. The adjoining ends of the strips 47 and 50 are provided with interlocking slots 54 and 55. Accordingly the strips may be folded outwardly of the underlying panels to which they are hinged and folded parallel to the bottom panels 41 and 42 and interlocked together to form a tubular structure as shown in Figure 4.

By cutting the strips from the body of the blank the size of the blank is reduced. Furthermore, by forming the band in this manner it can be easily wrapped about the goods and locked in product encircling position.

In accordance with the patent statutes, I have described the principles of construction and operation of my product encircling bands, and while I have endeavored to set forth the best embodiment thereof, I desire to have it understood that obvious changes may be made within the scope of the following claims without departing from the spirit of my invention.

I claim:

1. A band for use in encircling a product including a bottom panel, side walls hingedly connected to the bottom panel along parallel fold lines and extending upwardly therefrom, and a pair of strips cut from the center portion of the side walls and bottom panel

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and hingedly connected to the side walls at points spaced from the upper edges thereof, said bands being folded upwardly and outwardly of the side walls in surface contact thereto and having ends folded parallel to the bottom panel into overlapping relation, and means securing the overlapped ends of said strips together.

2. The construction described in claim 1 and in which the means securing the strip together includes interlocking means.

3. The construction described in claim 1 and in which the sides of the strips are substantially at right angles to said side walls.

4. The construction described in claim 1 and in which the side edges of the strips are mainly diagonal with respect to edges of the bottom panel to which said side walls are connected.

5. The construction described in claim 1 and including fold lines in said strips parallel to the fold lines connecting said strips to said side walls and foldably connecting the portions of said strips lying outwardly of said side walls to the portions of said strips extending substantially parallel to said bottom panel.

References Cited in the file of this patent

UNITED STATES PATENTS

1,913,134	Tilney	June 6, 1933
2,354,098	Bamber	July 18, 1944
2,646,357	Seiferth	July 21, 1953
2,676,748	Sprenger et al.	Apr. 27, 1954
2,678,770	Bonini	May 18, 1954
2,712,411	Boering	July 5, 1955