Sept. 24, 1946. A. T. JONES 2,408,317

BANDED BREAD LOAF PACKAGE

Filed May 24, 1943

Fig. 1

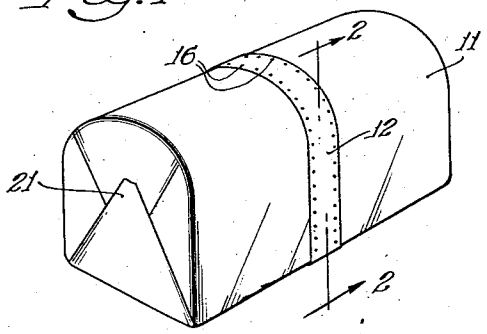


Fig. 2

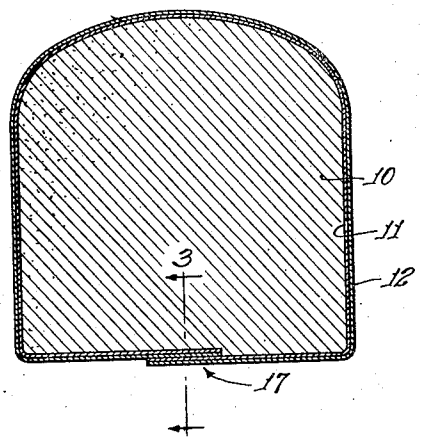


Fig. 3

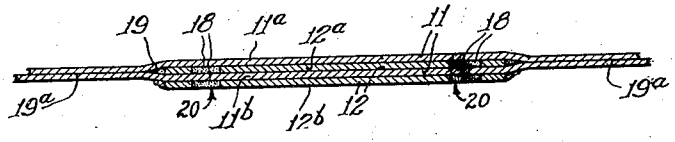


Fig. 4.

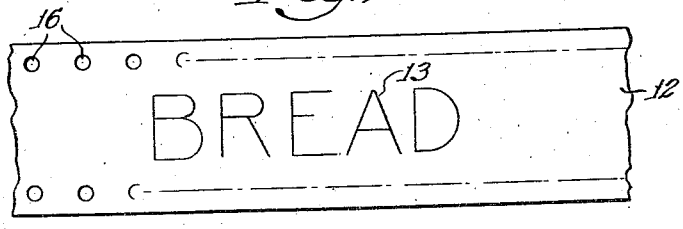
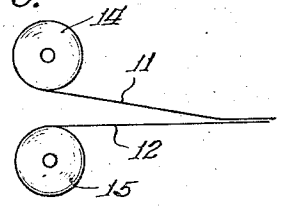


Fig. 5.



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BANDED BREAD LOAF PACKAGE

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Application May 24, 1943, Serial No. 488,177

1 Claim. (Cl. 99—172)

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This invention relates to banded bread loaf package and, more particularly articles such as wrapped loaves of bread or the like which are packaged by means of paper-like wrappers provided with potentially adhesive coatings such as heat-and-pressure sealable coatings and with a band therearound.

In the wrapping of bread heretofore it has been customary to wrap a relatively narrow band, bearing suitable advertising or other printed matter, about each loaf of bread simultaneously with the application of the bread wrapper in the wrapping machine. The wrapper for the bread has usually been formed of waxed paper or moisture proof translucid paper-like material, an adhesive such as the wax or the like being carried by both the band and the wrapper, or introduced therebetween. When a heat or pressure sealable coated material has been used for the band, it has been difficult and expensive to apply desired printed matter to the band; when the wrapper alone has carried the sealable material, it has not been possible to obtain a satisfactory seal; and when an extraneous adhesive has been introduced between the wrapper and band the cost has been prohibitive.

The present invention solves these difficulties and makes possible the use of an unwaxed band, for example, with a wrapper carrying a wax or other heat and pressure sealable coating, and effecting a secure attachment of the band to the wrapper, in the conventional wrapping machine practice and without extraneous means, even though the band be on the exterior of the wrapper.

This and other objects and advantages will be apparent from the following description, taken together with the accompanying drawing, in which—

Figure 1 is a perspective view of a packaged load of bread to which my invention is applied;

Figure 2 is an enlarged cross-section on the line 2—2 of Figure 1;

Figure 3 is a further enlarged fragmentary longitudinal section through the seal, taken on the line 3—3 of Figure 2;

Figure 4 is a portion of the band employed with the present invention and looking at it in plan; and

Figure 5 is a somewhat diagrammatic view of the supply rolls for the wrapper and band and an illustrative relationship of the latter.

Referring in detail to the drawing, to an article and method exemplifying the present invention, I have shown a loaf of bread 10 wrapped

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in a conventional bread wrapper 11 which, referring now for example to Figures 1 to 3 inclusive, may be of the usual well-known translucid waxed paper, waxed on both sides and particularly on its exterior surface, and, associated with the wrapper, and, in the figures of the drawing referred to, on the exterior thereof, I have shown a band 12 of unwaxed paper, a portion of which, in separated relation, is shown in Figure 4, and desirably carrying printed matter of attention attracting character, here represented merely by the word "Bread" thereon as at 13, and which may be any appropriate indicia.

As shown in Figure 5, somewhat diagrammatically, the wrapper and band may be associated together as an adjunct to the operation of a commercial wrapping machine and led from suitable supply rolls 14 and 15 respectively, simultaneously, into the wrapping machine for the wrapping of the loaf in a manner which need not be here further described, and which will be understood by those working in the art.

In accordance with the present invention, the band 12 is provided with perforations therein as indicated at 16, in this instance along each longitudinal edge of the band, being here shown as relatively small round holes spaced say a fraction of an inch apart therealong.

By perforating the band continuously therealong at each side as indicated, it will be assured that when the wrapper and a length of the band corresponding thereto are cut off by the wrapping machine for packaging the individual loaf and the wrapper and band wrapped around the loaf as shown in the drawing, there will be portions of the band which are perforated which are interleaved with the wrapper where the initially free edges of the wrapper are lapped together upon the underside of the loaf to form a sealed seam as at 17, and other perforated portions of the band which overlap the seam on the exterior of the wrapper.

Upon the application of heat and also preferably a suitable amount of pressure to the seam 17, in the wrapping machine, the wax of the wrapper 11 is activated and will flow through the perforations 16 in the band, and, as best shown in Figure 3, will form interlocking portions or little rivets 18, which securely attach the band to the wrapper, even though the band be on the exterior thereof as shown in Figures 1, 2, and 3. Rivet portions 18 of the coating thus extend through perforations 16 in inner and outer laminated formation in the area of the seam 17. For example, the rivet portions in the band end 12a

represent an inner lamination and the rivet portions in the band end 12b represent an outer lamination.

In the case of Figures 1, 2, and 3, the end 12a of the relatively narrow band 12 is inserted during the wrapping operation between the overlapped edges 11a and 11b of the wrapper so as to be interleaved therewith.

It will be seen that the edges of the wrapper are sealed together as at 18 and as at 19 and 19a by the adhesive properties of the coating, substantially over the area of said seam except that portion which is covered by the imperforate portion of the end of the band, whereby the band is anchored in position, although the band is of plain paper or other uncoated substance or is not of heat or pressure sealable material. Where the heat and pressure are not applied, the band is desirably unsecured to the wrapper.

The rivet portions in the band end outermost of the seam, as at 20, are on the exterior of the package and in the plane of this band end 12b.

The extending ends of the wrapper are conventionally folded and sealed as at 21, by a similar application of heat and pressure, to complete the package.

Having described my invention, I claim:

A banded bread loaf package, comprising: a loaf of bread; a wrapper of flexible material enveloping said loaf, said wrapper having a potentially adhesive flowable coating on the exterior thereof adapted to be activated by heat and pressure, a pair of adjacent ends of the wrapper forming an overlapped seam area having said coating to which the heat and pressure have been applied; a band of flexible material which does not have adhesive or potentially adhesive properties encircling said loaf on the exterior of the wrapper and having overlapped ends within the seam area, one end of the band being interleaved with the edges of said wrapper in the seam and the other end of the band being overlapped with said seam on the exterior of the wrapper; perforations in said band spaced longitudinally along each side margin thereof throughout the length of the band at sufficiently close intervals so that the ends of the band within said seam area have perforations therein at each side of each band end; and extruded rivet portions of said coating after the application of said heat and pressure extending from said wrapper through said perforations in both ends of the band in inner and outer laminated formation in the area of said seam, the rivet portions in the end of the band outermost of the seam being on the exterior of the wrapper and in the plane of the band end outermost of the seam, whereby both ends of the band are secured to the wrapper in the seam area but the band is unsecured to the wrapper except where the heat and pressure have been applied and the band has a different surface than the wrapper and has a central portion therealong between said perforations for indicia lettering.

AP TREVOR JONES.