Aug. 28, 1951 W. E. DENISON 2,566,122

DOUBLE COMPARTMENT METAL BAND PACKAGE

Filed Dec. 10, 1947

Fig. 1.

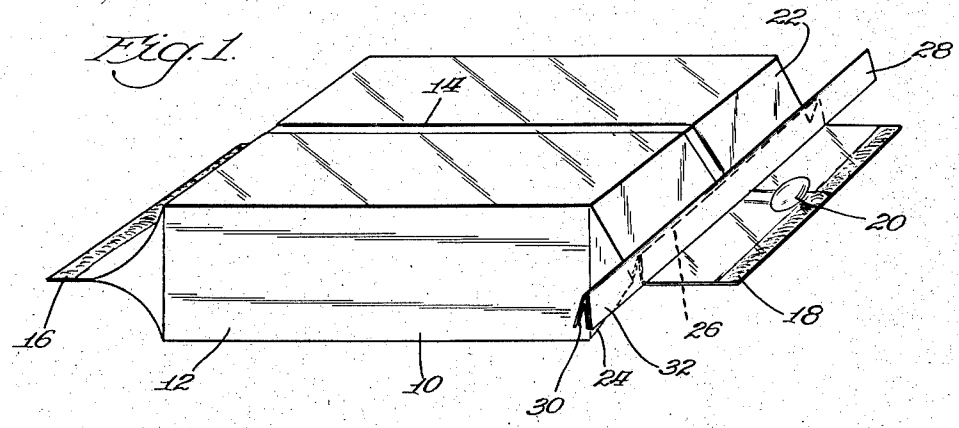


Fig. 2.

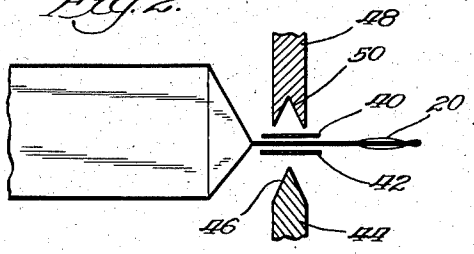
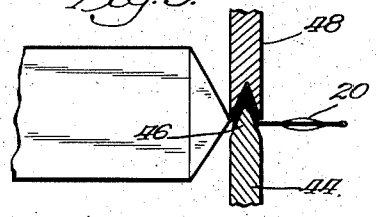


Fig. 3.



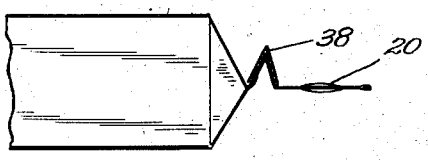


Fig. 4.

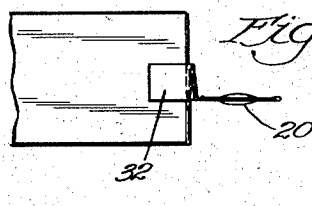


Fig. 5.

Fig. 6.

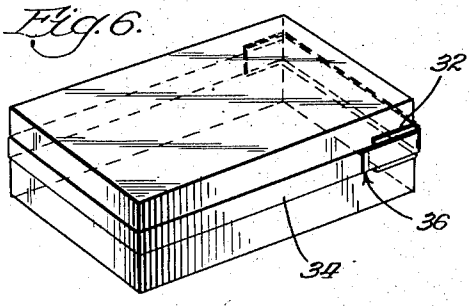
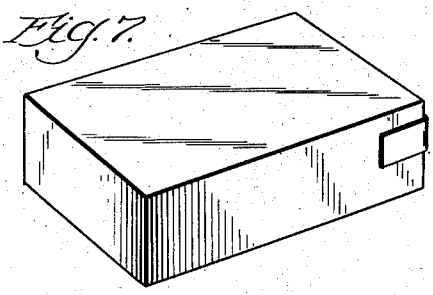


Fig. 7.



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DOUBLE COMPARTMENT METAL BAND PACKAGE

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Application December 10, 1947, Serial No. 790,792

3 Claims. (Cl. 99—179)

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This invention relates to a double compartment, metal band package and to the method of making the package. It is a continuation in part of applicant's copending application Serial No. 774,013, filed September 15, 1947, and Serial No. 780,120, filed October 16, 1947.

As the earlier filed copending application suggests, applicant is building a machine for packaging oleomargarine and coloring within a sealed container, which itself is divided into two compartments which may be thrown into communication with each other. The specifications call for packaging sixty prints a minute because the machine will be positioned between a standard votator and printer and a standard cartoning machine which are presently designed to operate at approximately that speed. Applicant's method consists in depositing prints of oleomargarine and spots of coloring, properly spaced, on a moving web of Vinylite, or other plastic, of wrapping the edges of the web over the prints and sealing the edges together to form a tube; of transversely sealing and severing the tube into separate packages, and of then separating each package into two compartments. These steps are performed by a series of stations in a machine and it is desirable to have the stations move with the web as little as possible.

One of the critical stations is that which separates the sealed-in oleomargarine and coloring into two compartments. The more simply this can be done, the more likely is the machine to attain the desired speed. The object of this invention is to provide a simple, strong, external holding means for clasping together the opposite walls of a flexible container between the spot of coloring and the oleomargarine so as to separate the container into two compartments. This is accomplished by the employment of one or two metallic bands which are longitudinally creased and positioned over a longitudinal crease of two opposite walls of the container, crimped, and then drawn tightly around the side of the package.

The invention is illustrated in the accompanying drawings wherein:

Fig. 1 is a perspective view of applicant's package with two bands in positions prior to crimping and final folding around the ends of the package;

Fig. 2 and Fig. 3 illustrate the method of applying the bands;

Fig. 4 illustrates the method as applied to a single metal band package;

Fig. 5 illustrates the end of the package after the bands have been folded around it;

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Fig. 6 shows the completed package with an auxiliary band therearound immediately prior to cartoning; and

Fig. 7 shows the completed package without the auxiliary band.

Continuing to refer to the drawings, numeral 10 identifies a sealed package of durable, tough material such as Vinylite with a print of oleomargarine 12 positioned at one end thereof. The package has a longitudinal heat seal 14 and end heat seals 16 and 18. A spot of coloring 20 is positioned inside the container.

The top wall 22 and the bottom wall 24 of the container adjacent the coloring spot 20 are transversely creased along the line 26. These thermoplastic wrappers such as Vinylite are quite elastic and do not hold a crease temporarily. Over the walls and the crease is positioned a metal band 28 and beneath the crease is positioned a second metal band 30. The ends of the metal band such as 32 may be crimped or themselves heat sealed and then the entire end of the package including the portion containing the coloring spot 20 is pushed up against the print of oleomargarine as illustrated in Fig. 5 and the ends of the band are turned at right angles along the side of the print. Thereafter, in one form, a paper band 34 may be wrapped around the side walls of the package and fastened by adhesive at 36. This band 34 may be pressure-sensitive adhesive that extends completely around the package and which can be removed as one removes Scotch tape.

An alternative form of the package is illustrated in Fig. 4 where a single band 38 is employed. This performs the same function as the double band, and while it does not hold as tightly as the double band, experience may show that it holds sufficiently well to meet commercial requirements.

In order to use, the housewife tears off the end of the double metal band, thus freeing it from the wrapper so that the coloring compartment is thrown into the oleomargarine compartment and mixing by kneading may proceed.

In order to make this package, applicant feeds transversely of the moving tube two strips of the metal band material bearing numbers 40 and 42 in Fig. 2. A lower jaw 44 having a wedge-working surface 46 moves upwardly as an upper jaw 48 having a groove 50 complementary to the wedge 46 moves downwardly. These crease the metal bands and the upper and lower walls of the package and thereafter the ends of the metal bands are crimped or sealed and drawn around the sides of the oleomargarine print as illustrated in Fig. 5. The last step is to place

the sealed package in a carton, which is a standard operation. This is a very simple means for forming a twin-compartment package. Registry of the metal bands and the shaping jaws is attained by mounting the feeding equipment for the bands and the actuating equipment for the jaws on the same fixture, which, if the machine is designed for continuous movement of the web and tube, will move a short distance with the web and tube during the applying step.

Having thus disclosed my invention, what I claim is:

1. A package for maintaining separate a print of oleomargarine and coloring material comprising a sealed envelope made of elastic material, a print of oleomargarine in one portion of said envelope, a spot of coloring within said envelope but spaced from said oleomargarine, portions of each of two opposite walls between the coloring and the oleomargarine brought in flush relationship with each other, a straight crease along said portion so as to separate the container into two compartments, and a straight, stiff metal band having a V-shape cross section seated over said crease for holding the same.

2. The package of claim 1 wherein the ends of the metal band extend beyond each end respectively of the crease in the package walls and wherein the ends of the metal bands are wrapped around the side walls of the package adjacent the oleomargarine print.

3. The package of claim 1 wherein a second band having a V-shape cross section is inserted into the crease beneath the first band and wherein the ends of both bands extend beyond the respective ends of the crease of the package walls and are heat sealed to each other.

WILLIAM E. DENISON.

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