

Fig. 1

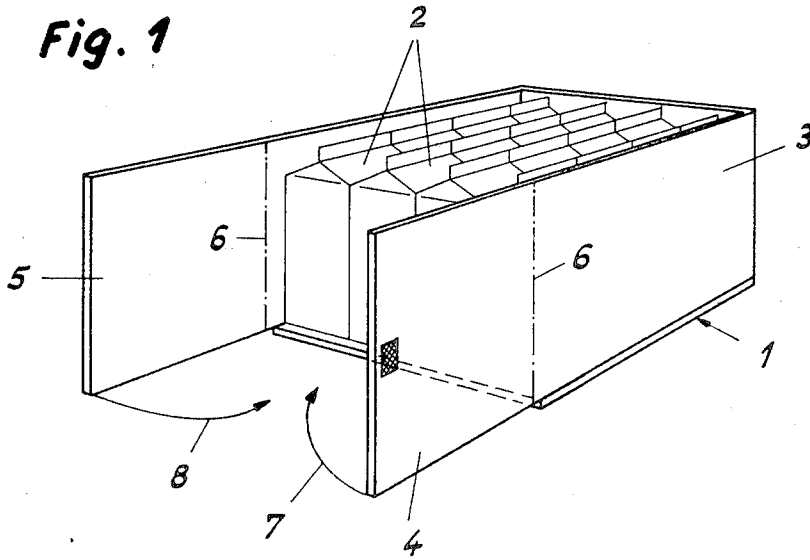


Fig. 2

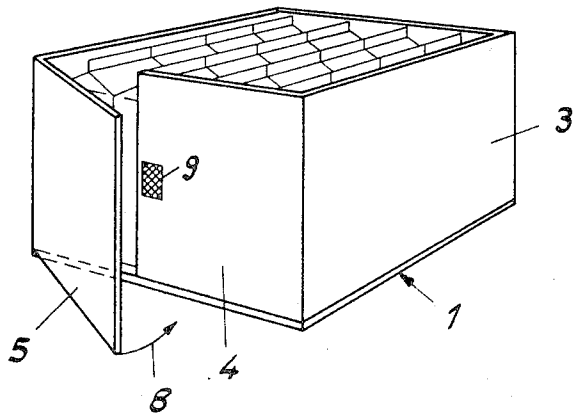


Fig. 5

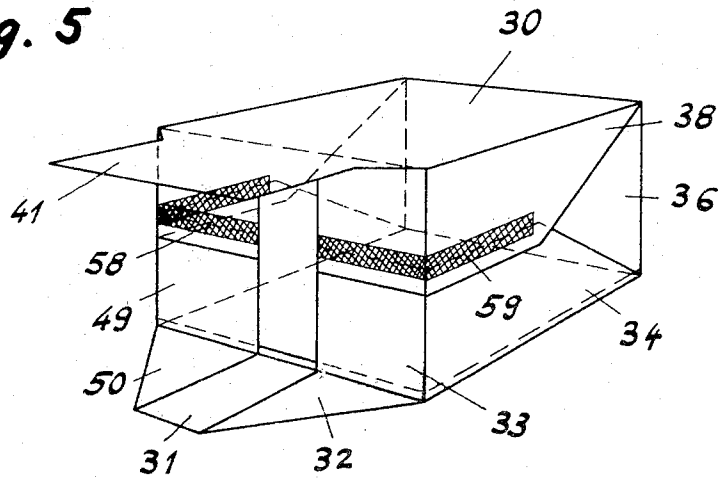
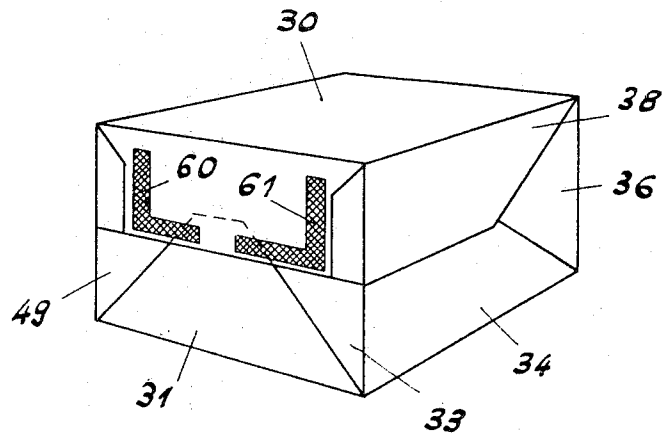


Fig. 6



PACKAGE

BACKGROUND OF THE INVENTION

The invention relates to a package having a bottom for supporting the contents, sides in the form of a collar surrounding the contents, and a sheet wrapped and folded around the bottom, sides, and contents.

With prior art packages, such as those holding liquids, having a bottom and sides, or collar, made of cardboard but a wrapping sheet made of paper, the latter after wrapping and folding is stuck together only along a few gluing strips to prevent the contents from falling out. These packages have the disadvantage that they easily become misshapen when they are stacked or moved about. The consequence is not only that the packages look unsightly but that they become entangled with neighboring packages, which complicates, or makes impossible, their handling on skids, for example.

SUMMARY OF THE INVENTION

An object of the invention is to provide a package that avoids these disadvantages of the prior art. In accordance with the invention, the sheet is glued to both the bottom and the collar, or sides, and the overlapping edge areas of the sheet are glued together.

This object and others of the invention will be apparent from the following detailed description of one embodiment.

BRIEF DESCRIPTION OF THE DRAWINGS

The invention will be described, with reference to the Figures of the accompanying drawings, wherein:

FIGS. 1 to 5 are perspective views of successive steps during the making of the package; and

FIG. 6 is a perspective view of the finished package.

DESCRIPTION OF THE PREFERRED EMBODIMENT

FIG. 1 shows arranged on a cardboard bottom 1 several rows of objects 2 that are to be packed. A U-shaped beveled cardboard strip 3 partly surrounds the objects, and stands on its edge along three sides of the rim of the bottom 1. The sides of the strip are preferably provided with suitable folding lines 6; and the end flaps 4 and 5 are turned in, as indicated by the arrows 7 and 8 in FIGS. 1 and 2, so that they overlap and rest edgewise along the margin of the fourth side of the bottom 1. The outer face of the end flap 4 is provided at its inner edge with adhesive 9, which glues together the overlapping parts of the end flaps 4 and 5, forming a stiff, closed, ring-shaped cardboard collar 10 (see FIG. 3), of which the height h preferably is somewhat greater than that of the objects 2. The collar forms the sides of the package.

A rectangular sheet of paper 11 is wrapped about the combination of the bottom 1, the collar 10, and the objects 2, which latter are not shown in FIGS. 3 to 6. Preferably, the paper sheet is previously provided with four transverse folding lines 12-15; two longitudinal folding lines 16 and 17; eight oblique folding lines 18-25, located in the four edge zones and extending at a 45° angle to the folding lines 12 to 17, for tucking in the sheet at the corners of the package; and two edge cuts 26 and 27 that extend to the ends of the respective folding lines 24 and 25. The paper sheet is divided into three major sections 28, 29 and 30 and 20 edge sections 31 to 50. The major sections 28 and 30 are equal in size to the bottom 1, and the intermediately located major section 29 is of the same size as the collar rear wall 51, referenced in FIG. 3. The width b of the edge sections 31 to 50 is less than the collar height h , but greater than one-half this height, so that the edge sections

overlap after they are folded down against the collar 10.

Ten glue areas 52 to 61 are provided on the paper sheet 11. When the sheet is wrapped around the combination 1, 2, and 10, as shown in FIGS. 4 to 6, the bottom 1 is covered by the major section 28, and the major section 30 covers the top of the package. The major section 29 covers the collar rear wall 51, and the remaining three collar walls 62 to 64 (FIG. 3) are covered by a plurality of edge sections 31 to 50, which are partly coextensive and partly overlapping.

The small, patchlike glue areas 52 and 53 stick the edge sections 48 and 34 to the respective collar walls 64 and 62; the striplike glue areas 54 and 55, the major sections 28 and 29 to the bottom 1 and the collar wall 51; the glue strips 56 and 57, the edge sections 46 and 36 to the collar walls 64 and 62; the glue strips 58 and 59, the respective edge sections 44, 43 and 38, 39 to the respective edge sections 48, 49 and 34, 33, as well as to the collar walls 62, 63, and 64; and the two L-shaped glue areas 60 and 61, the edge section 41 to the collar wall 63 and to the edge sections 31 and respectively 49 and 33. To ensure the clarity of FIGS. 5 and 6, in FIG. 5 only the glue areas 58 and 59 are shown, and in FIG. 6 only the glue areas 60 and 61. In FIGS. 4 to 6 the glue areas are illustrated as though the paper sheet 11 were transparent.

It is emphasized that as a consequence of the incisions 26 and 27 the edge section 41 is longer along the folding line 15 than it is at the oblique folding lines 24 and 25, which extend to the folding line 15. This feature is favorable to the application of sufficiently large glue areas 60 and 61.

Since the sheet 11 is glued to both the bottom 1 and the collar 10, and since the overlapping and partly coextensive edge sections covering the collar walls 62 to 54 are also glued together, the finished package, shown in FIG. 6, is so rigid that when stacked and transported it has none of the disadvantages mentioned at the beginning.

The sheet 11 can also be used with a U-shaped bottom having two opposed edges bent upwards. In this case it is advisable to glue the bent-up edges to the collar. Although cardboard (including corrugated board for the collars) and paper generally will be used for the packages of the invention, other materials can also be used, if desired or necessary, including synthetic plastic panels, sheets, and film.

Although the preferred embodiment of the invention has been described, the scope of, and the breadth of protection afforded to, the invention are limited solely by the appended claims.

I claim:

1. In a package, still upright side members forming a collar which surrounds the package contents, a stiff bottom member supporting the package contents and having a contour which matches that of said collar, a sheet of wrapping material folded to cover the outside of said bottom and collar and to extend across the top of the latter, said sheet having overlapping edge portions, and adhesive areas joining said overlapping edge portions together and adhering said sheet to said stiff bottom and side members, said bottom member and said sheet being of rectangular configuration with the sheet folded along four spaced transverse folding lines, two longitudinal folding lines, and eight oblique folding lines located in the areas along the edges of said sheet, the width of said edge areas being less than the whole but more than one-half of the height of the collar.

2. The package as defined in claim 1, including two spaced incisions cut into one sheet edge, said incisions partly defining the two ends of one said edge area and connecting at their inner ends with the ends of respective ones of two of said oblique folding lines.

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