Jan. 2, 1940. C. K. LAVERE 2,185,637

PACKING MEMBER AND BLANK THEREFOR

Filed April 5, 1938

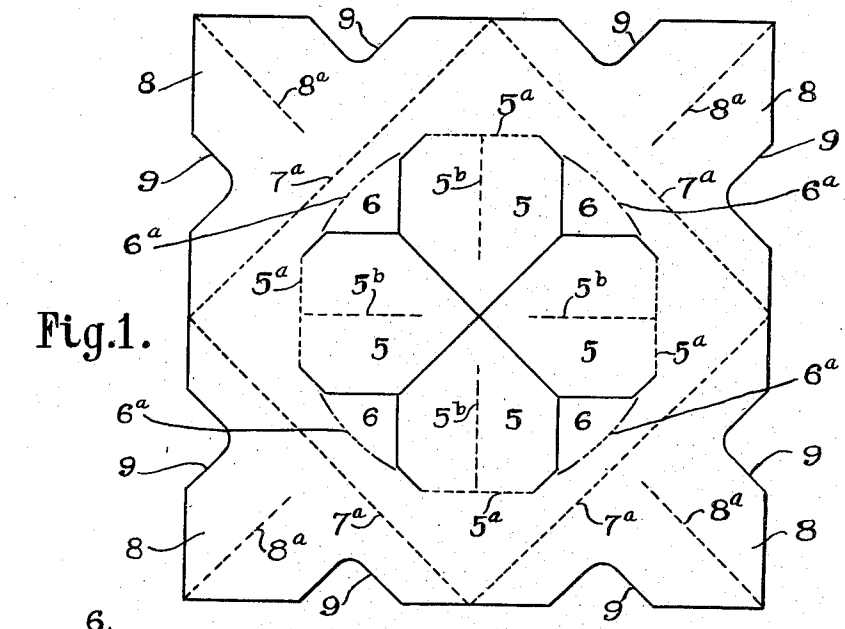


Fig.1.

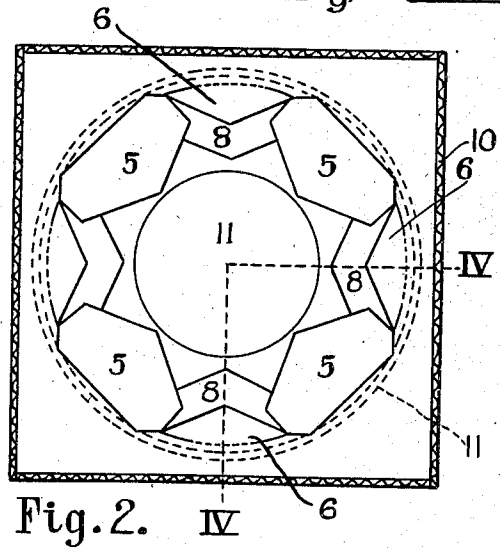


Fig.2.

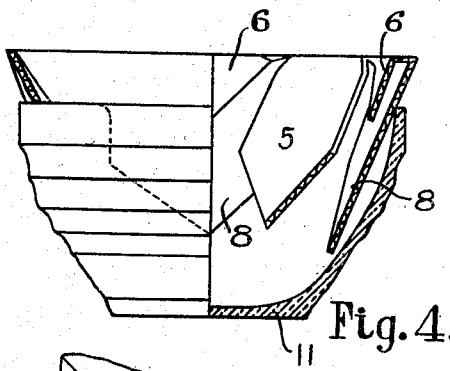


Fig.4.

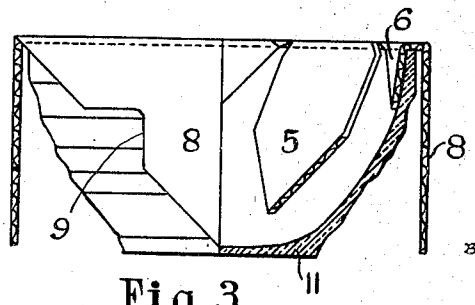


Fig.3.

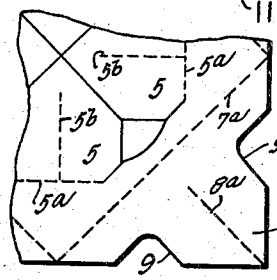


Fig.5.

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Patented Jan. 2, 1940 2,185,637

UNITED STATES PATENT OFFICE

2,185,637

PACKING MEMBER AND BLANK THEREFOR

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Application April 5, 1938, Serial No. 200,197

6 Claims. (Cl. 206—65)

This invention relates to pads or devices intended more particularly for packing either singly or nestingly pieces of hollow ware such as bowls of glass or other material especially when the material is of a frangible nature.

The object of the invention is to provide a blank packing device of suitable material and form the portions of which can be quickly bent to position to engage the packed article or articles, and space the same from a box or carton in which the article is to be contained, stored or transported.

A further object of the invention is to so construct the blank that portions of it can be flexed to engage and separate or cushion the articles packed either internally or externally, or both, and thereby rendered serviceable in packing the articles either singly or in multiple or nesting relation.

Other objects will appear from the disclosure herein.

The invention is embodied in the example herein shown and described, the feature of novelty being finally claimed.

In the accompanying drawing—

Figure 1 is a plan view of the blank according to the invention.

Fig. 2 is a plan view of the packer blank as shown in Fig. 1 bent and applied to a bowl contained in a carton the latter being in horizontal cross section.

Fig. 3 is a combined elevation and section illustration how the blank can be applied to a single bowl when it alone is to occupy a carton.

Fig. 4 is a combined elevation and section of a bowl on the lines IV—IV Fig. 2 illustrating how the packing is applied to a bowl that is to be nested by superposition with another packed bowl, such as illustrated in Fig. 3.

Fig. 5 is a modified form of the construction illustrating on a smaller scale one corner of such a sheet as depicted in Fig. 1 with the small tongue 6 of said Fig. 1 omitted.

Referring first to Fig. 1, the blank is formed preferably from a piece of double faced corrugated paper board, or such as required or permitted by the postal authorities or transporting agencies, the said piece being shown as of rectangular polygon outline and die-cut to form members substantially as shown. The full lines within the boundaries of the blank of the said view Fig. 1 illustrate die-cut lines and the broken lines indicate scoring, bending or hinging lines. Where the material is thick these latter lines should be depressed in the sheet to facilitate bending.

At the middle of the blank are cut four large spear shaped tongues 5 of like form and dimensions the points of which meet at the center of the blank and are bendable on shortened broken or scoring lines 5a; and between the parallel portions of the lines at the bases of said tongues 5 are cut from smaller tongues 6 that are bendable on lines 6a. The bendable lines 6a are shown as being shorter than the base of the said smaller tongues 6, said lines being cut through for a short distance at each end of the base thereof to facilitate the bending of the tongue. The scoring lines on the perpendiculars of the tongues permit transverse flexing of the tongues and therefore some accommodation and resilience of the tongues to the curvature of the ware.

The scoring lines 7a form a square the corners of which touch the middles of the four edges of the blank. These scoring lines 7a are bending lines defining substantially the interior of the horizontal cross section of the carton 10 (see Fig. 2) and when the blank is suitably bent in the same direction on said lines they form a rim that fits bracingly in the carton to receive the bowl 11 or other article to be packed therein.

The portions of the blank beyond the scoring lines 7a are formed as tongues 8, and to render these more transversely flexible to accommodate them to the curvature of the ware they are scored on their perpendiculars as shown at 8a and have their margins cut out as indicated at 9.

In Fig. 3 the blank is shown as having its tongues bent to engage the bowl 11 in which case the tongues 5 and 6 are pressed inward to bear more or less on the interior surfaces of the bowl while the corner tongues 8 depend upon the outer side of the bowl. When a bowl is thus supplied with a packing, it can have superposed or nested within it a second bowl having applied to it the packing as shown in Fig. 4 in which case the tongues 8 are shown as being included with the tongues 5 and 6 as inserted into the interior of the bowl.

As shown in Fig. 5 the small tongues 6 can be omitted without seriously impairing the efficiency of the packing. But when such tongues 6 are not present the tongues 5 are more easily pressed out into packing position.

It will be obvious that with the tongues 5 and 8 placed to stand as shown in Fig. 3 three bowls can be nested with a single pad because a bowl can be inserted into upper part of Fig. 3 and

the tongues 8 afterwards pressed inward to permit the addition of a third bowl below the two.

The carton or box 10 for containing the ware should be of horizontal dimensions to receive the rim or rims of the packing members or portions thereof with a close fit and with ordinary flap covers (not shown) so as to hold the packed ware from movement horizontally or otherwise therein.

The material, form, size and number of the parts can be changed without departing from the gist of the invention as claimed.

What I claim is:

1. A packing device for a piece of hollow ware in a carton, said packing device including a sheet of polygonal form of suitable material and having bending lines subtending the angles thereof and when bent on said lines defining substantially a horizontal cross section of the interior of the carton, and tongues in the sheet within said bending lines adapted to be bent to extend into the ware.

2. A packing device for a piece of hollow ware in a carton, said packing device including a sheet of suitable material of polygonal form and having bending lines subtending the angles thereof defining substantially a horizontal cross section of the interior of the carton, and tongues in the sheet within said bending lines spaced from said first mentioned lines.

3. A packing device for a piece of hollow ware in a carton, said packing device including a sheet of polygonal form of suitable material having bending lines subtending the angles thereof and defining substantially a horizontal cross section of the interior of the carton, the portions of the sheet externally beyond said lines when bent on said lines forming ware engaging tongues, and tongues in said sheet within said bending lines adapted to be bent to lie within the interior of said ware.

4. A packing device for a piece of hollow ware in a carton, said packing device including a sheet of suitable material of polygonal form having bending lines subtending the angles thereof and defining substantially a horizontal cross section of the interior of the carton, the portions of the sheet beyond said bending lines having ware engaging tongues adapted to engage the exterior of the ware, and tongues in said sheet within said bending lines adapted to be bent to lie within the interior of the ware and tongues of smaller dimensions in said sheet between said last mentioned tongues bendable to extend into said ware.

5. A packing device for hollow ware in a carton, said device including a sheet of suitable material of polygonal form and having bending lines subtending the angles of the sheet and forming exterior triangular ware engaging tongues, said bending lines defining substantially a cross section of the interior of the carton, and interior tongues in the sheet within said subtending lines, said exterior and interior tongues bendable to extend into the interior of a piece of ware and form packing members for a second piece of ware nested therein.

6. A packing device for a piece of hollow ware in a carton, said packing device including a sheet of suitable material of polygonal form having bending lines subtending the convex angles of the sheet and defining substantially a cross section of the interior of the carton, and a plurality of large tongues, and small tongues intervening the said large tongues within said subtending bending lines, the said last named tongues having bending lines shorter than the bases thereof.

CARROLL K. LAVERE.