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PAPER OR SIMILAR CUP

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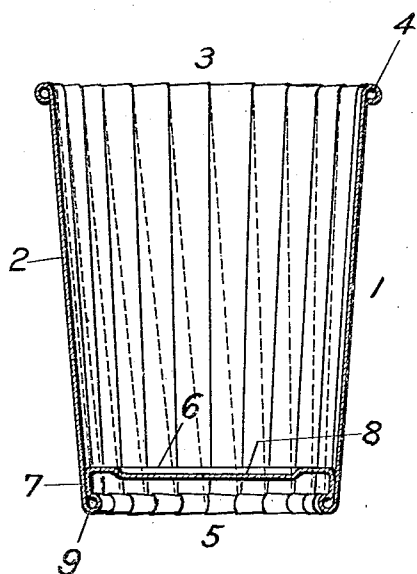


FIG. 1

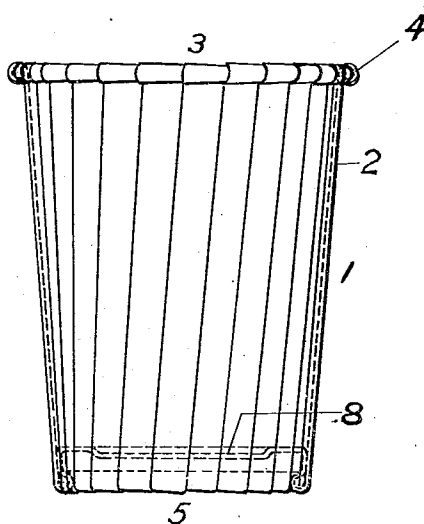


FIG. 2

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UNITED STATES PATENT OFFICE

2,041,437

PAPER OR SIMILAR CUP

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10 Claims. (Cl. 229—21)

The object of my invention is to form a cup out of a single piece of paper or similar substance having plaited or folded sides, with preferably a round rolled edge on the top to stiffen the top and a turned-in and raised bottom to stiffen the bottom. I am aware that single piece paper cups are already provided with stiffened rims but with flat bottoms. Cups of this type when filled with a liquid will readily squash in one's hand, the bottom having no stiffness whatsoever unless unnecessarily heavy paper is used. With a turned-in and raised bottom a remarkably greater stiffness is given the whole cup with but little greater expense of paper.

My invention is illustrated in the accompanying drawing, wherein—

Fig. 1 is a cross-section of my improved cup and Fig. 2 an elevation of the same.

Throughout the views of the drawing, similar reference characters designate similar parts.

My improved cup 1 is made from a single piece of paper or equivalent material provided with plaited or folded sides 2 of any of the conventional kind. On the top 3 is shown a rolled rim 4 of the conventional type to stiffen the cup at the top. At the lowest point 5 of the cup the bottom 6 is elevated or raised above the lower edge within the side walls of the cup-forming sides 7 closely hugging the plaited sides 2, giving the lower end of the cup a double thickness of material. This bottom 6 is furthermore stiffened by a depression or indentation 8.

In addition a bead 9 is provided to stiffen the base of the cup.

This cup may or may not be paraffined as its application may require but in all cases will the raised bottom prove a great improvement and make the cup more valuable.

My invention, of course is not confined to cups having rolled rims. It may be employed on any cup or container made from a single sheet of paper.

What I claim is:

1. A paper cup made from a single sheet of paper, the lower end of which has a rolled bead substantially circular in cross-section for stiffening the same.

2. A paper cup made from a single sheet of paper having a raised bottom and a rolled bead substantially circular in cross-section at the bottom for stiffening the same.

3. A paper cup formed from a single sheet of paper having the lower edge of the side walls rolled inwardly and upwardly and thence toward the side walls of the cup to provide a stiffening bead at the circumferential edge of the base of the cup.

4. A paper cup formed from a single sheet of paper having the lower edge of the side walls rolled inwardly and upwardly and thence toward the side walls of the cup to provide a stiffening bead at the circumferential edge of the base of the cup and a bottom for the cup raised above the bead to form a narrow annular portion extending parallel to and closely hugging the side walls of the cup for strengthening and stiffening the base of the cup.

5. A paper cup formed from a single sheet of paper having the lower edge of the side walls rolled to provide a stiffening bead substantially circular in cross section at the circumferential edge at the base of the cup and having the bottom of the cup indented to stiffen the same.

6. A paper cup formed from a single sheet of paper having pleated side walls with the lower edge of the side walls rolled inwardly and upwardly to provide a stiffening bead at the circumferential edge at the base of the cup and a bottom for the cup raised above the bead and forming a narrow annular portion extending parallel to and closely hugging the side walls of the cup for strengthening and stiffening the base of the cup, said bottom also having its central portion indented for further strengthening and stiffening the same.

7. A paper cup formed from a single sheet of paper and having seamless pleated side-walls and having its bottom formed continuously with the side walls and raised above the lower edge of the side-walls to form an annular wall of a double thickness of material at the base of the cup for strengthening and stiffening the same.

8. A paper cup formed from a single sheet of paper and having seamless pleated side-walls and having the lower circumferential edge of the side walls doubled back to provide a stiffening rim at the base of the cup.

9. A paper cup formed from a single sheet of paper and having seamless pleated side walls and having at the base thereof a rolled bead formed continuously with the side walls and substantially circular in cross-section for stiffening the base of the cup.

10. A paper cup formed from a single sheet of paper and having seamless pleated side walls and having at the base thereof a rolled bead formed continuously with the side walls and substantially circular in cross-section for stiffening the base of the cup, and a bottom raised above the bead and forming a narrow annular portion extending parallel to and closely hugging the side walls of the cup for further stiffening the base of the cup.

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