Jan. 25, 1927. 1,615,254

E. G. BARKER

DRINKING VESSEL

Filed March 31, 1924

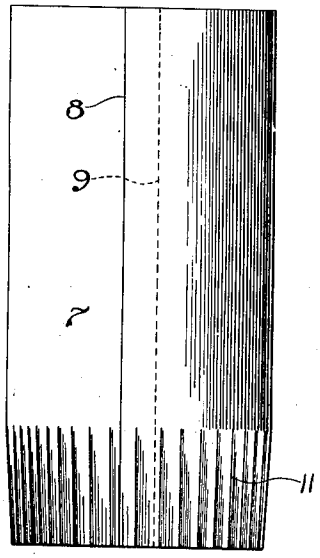


Fig. 1.

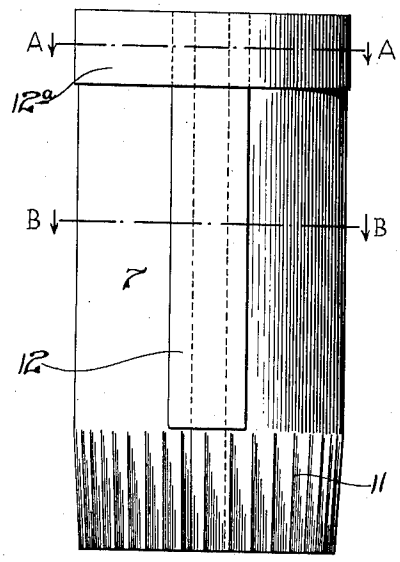


Fig. 3.

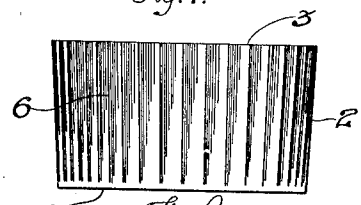


Fig. 2.

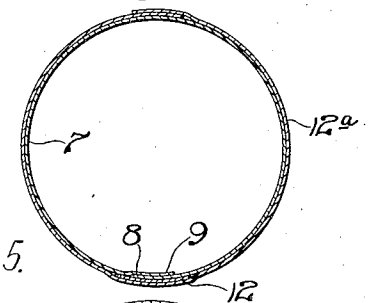


Fig. 5.

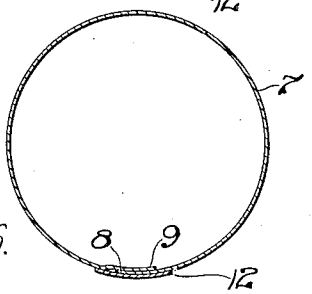


Fig. 6.

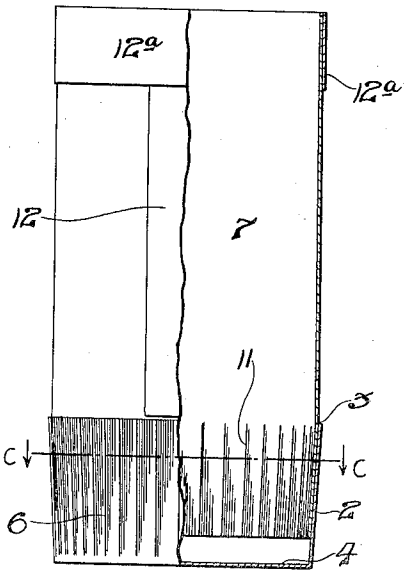


Fig. 4.

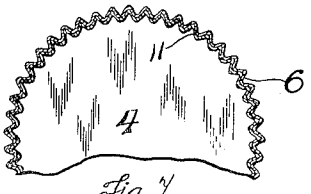


Fig. 7.

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UNITED STATES PATENT OFFICE.

EDMUND GEORGE BARKER, OF MELBOURNE, VICTORIA, AUSTRALIA.

DRINKING VESSEL.

Application filed March 31, 1924. Serial No. 703,163.

This invention relates to drinking and like vessels of paper or similar material for use in cafés, soft drink dispensaries, and other places where it is intended that each vessel should be destroyed after its initial use of holding a beverage, ice cream or like substances.

The object of the present invention is to provide an improved drinking vessel of the above class constructed wholly of paper or such like flexible and readily destructible material, the improved vessel being relatively strong so that it may be handled or gripped without danger of collapse or undue distortion, and being also capable of standing erect without independent support upon a flat surface. Moreover, the improved vessel is simple and inexpensive to manufacture, is entirely leak proof, and in all respects eminently suitable for the purpose mentioned.

Referring to the drawings which form part of this specification:—

Figure 1 is an elevation of an open ended cylindrical member which forms the body of a drinking vessel in accordance with the invention.

Figure 2 is an elevation of a cup-like base member which is adapted for attachment to the lower end of the aforesaid cylindrical member.

Figure 3 is a similar view of the cylindrical body member showing circumferential and longitudinal reinforcing strips applied thereto.

Figure 4 is a part sectional elevation showing the cylindrical member and the base member assembled and secured together to form a complete vessel in accordance with the invention.

Figure 5 is a cross section on line A—A of Figure 3.

Figure 6 is a cross section on line B—B of Figure 3.

Figure 7 is a fragmentary cross section on line C—C of Figure 4.

According to this invention the drinking vessel comprises a base member 2 which may be formed from a blank or disc of paper or such like material by any suitable means. This base member is of substantially cup shape and has an open top 3 and a closed flat bottom 4 the upstanding side wall of said member being preferably slightly divergent towards its open top. Vertical flutings, pleats or corrugations 6 are formed in the upstanding wall of said base member as shown.

The cylindrical member 7 which constitutes the body of the vessel is also formed of paper or like material and may be shaped from a rectangular blank of such material by any suitable means. This cylindrical member is open at both ends and the longitudinal edges 8 and 9 of the blank from which it is formed overlap each other as shown in the drawings and are permanently united by glue or other suitable adhesive to thereby provide a liquid tight joint.

Longitudinal flutings or corrugations 11 are formed in the wall of the cylindrical member 7 and extend upwardly from the lower extremity thereof for a suitable distance so that when the body is fitted into the base, as shown in Fig. 4, it will be wedged therein with the upper edges of the corrugations or flutings 2 and 11 even and the lower edge of the body spaced above the bottom of the base an appreciable distance. The said longitudinal flutings 11 of the cylinder correspond to the flutings 6 of the base member so that the fluted end of the cylindrical member may fit closely into the base member 2 with the flutings of the two members interengaging as seen in Figures 4 and 7. A suitable glutinous or adhesive substance is introduced between the contiguous surfaces of the two members 2 and 7 to provide the necessary liquid tight joint whereby said cylindrical member is effectively secured to and supported by the base member.

As shown in Figures 3, 4, 5 and 6 one or more longitudinal reinforcing strips 12 of paper or like material may be placed over the longitudinal overlapping edges 8 and 9 of the cylindrical member 7 and secured in such position by a suitable adhesive to reinforce the structure and assist in maintaining an effective liquid tight joint between said edges. This longitudinal reinforcing strip preferably extends from the upper end of the body and terminates in slight spaced relation to the upper edges of the flutings 11 and wall of the base as shown in Figure 4.

Another reinforcing strip or strips 12ª may extend circumferentially around the upper open end of the cylindrical member 7 as shown in Figures 3, 4 and 5 to further reinforce the top of the structure and pro-

vide a suitable drinking edge which is not liable to distortion through contact with the lips of the user.

If desired the completed vessel may be externally coated with paraffine, wax or the like or the two members of the vessel may be formed of paper coated with such substances.

It will be appreciated from the foregoing that the invention provides a simple, inexpensive and comparatively strong and thoroughly liquid tight drinking vessel which may be handled without damage or undue distortion and will stand erect of its own accord when in use. The improved vessel is also adapted to nest within other vessels of the same construction when packed or stored and is otherwise highly suited for the purposes in view.

Having now described my invention what I claim as new and desire to secure by Letters Patent is:—

1. A receptacle of paper or the like comprising an open-ended body crimped to provide a tapered lower portion having longitudinally extending corrugations, and a base having a bottom and an upstanding peripheral wall flaring upwardly and of greater depth than the crimped lower portion of said body, said wall being crimped to form vertically extending corrugations to interengage with the corrugations of the body, and said body being wedged into said base and firmly secured therein with its lower edge spaced above the bottom of the base and the upper edges of the crimped portions substantially even.

2. A receptacle of paper or the like comprising an open-ended body crimped to provide a tapered lower portion having longitudinally extending corrugations, said body being formed of a blank having its side edge portions overlapped and secured, a reinforcing strip extending longitudinally of said body in covering relation to said overlapped portions and at its lower end terminating adjacent the corrugated lower portion of the body, and a base including a bottom and an upstanding peripheral wall of greater depth than the crimped and tapered lower portion of said body and provided with vertically extending corrugations to interengage with the corrugations of said body, said body being adapted to be wedged into said base and secured with the upper edge of the wall of the base substantially even with the upper edge of the crimped portion of the base and out of contact with the lower end of said reinforcing strip and the lower edge of the body spaced above the bottom of the base.

In testimony whereof I affix my signature.

EDMUND G. BARKER.