March 18, 1958 D. J. MATTON 2,827,194

BOTTLE CAP AND SUPPORT ASSEMBLY

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Fig. 1.

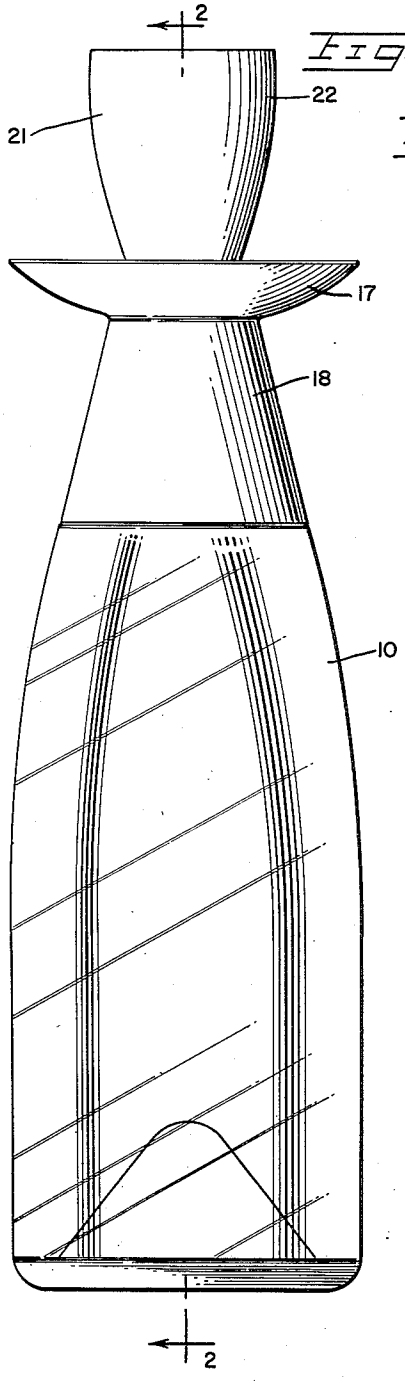
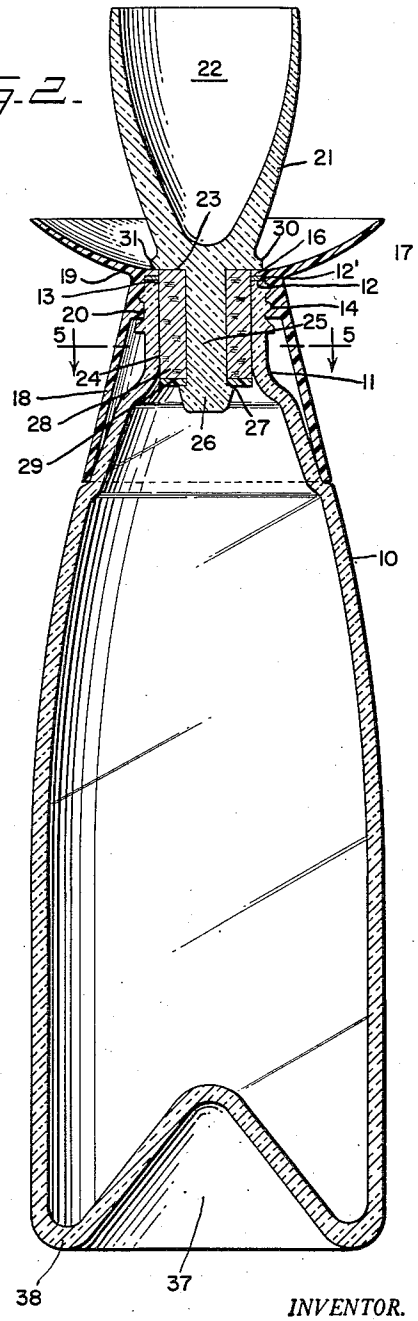



Fig. 2.




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Fig. 3.

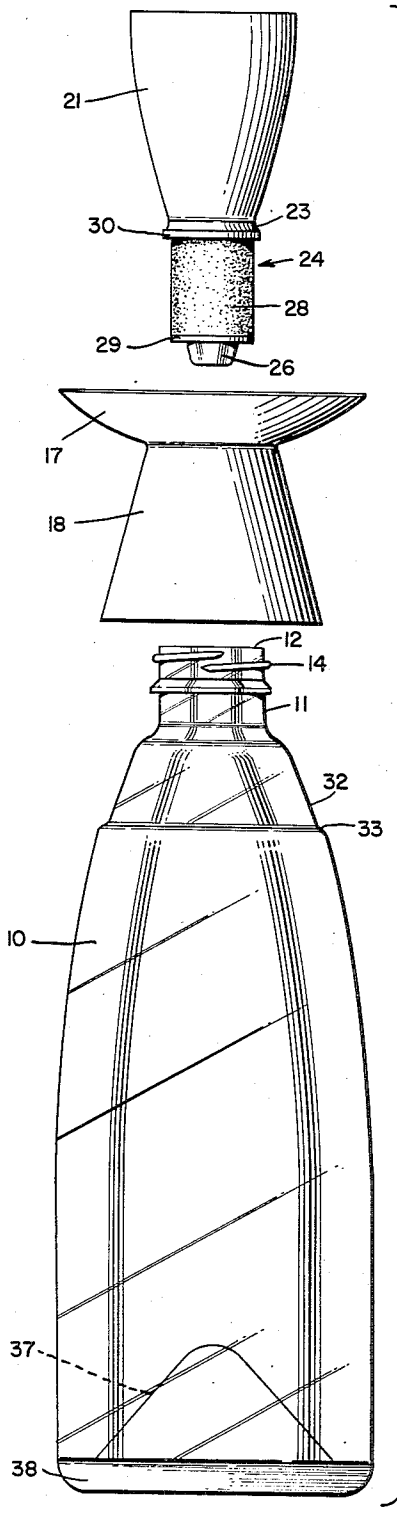



Fig. 4.

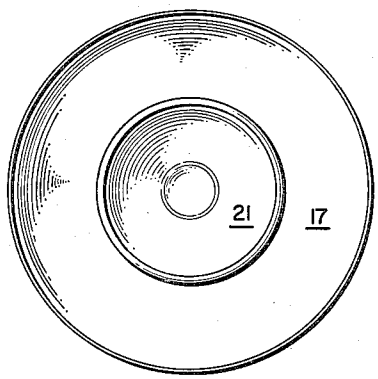



Fig. 5.

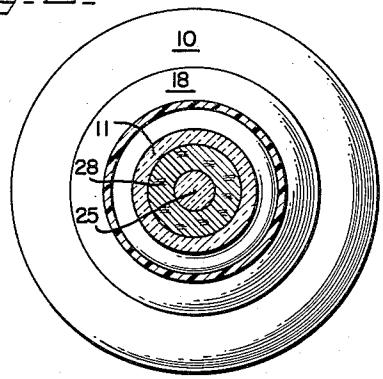
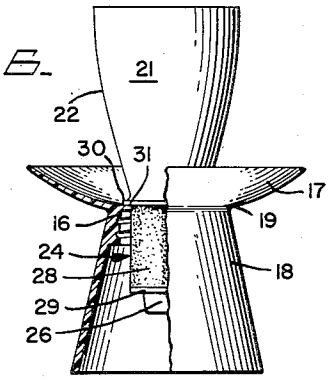



Fig. 6.




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BOTTLE CAP AND SUPPORT ASSEMBLY

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Fig. 10.

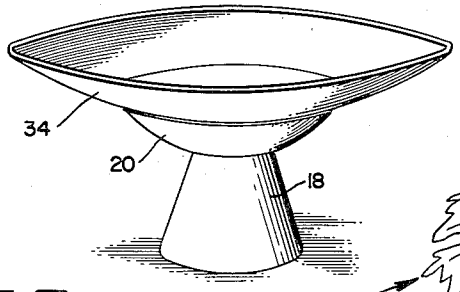



Fig. 11.

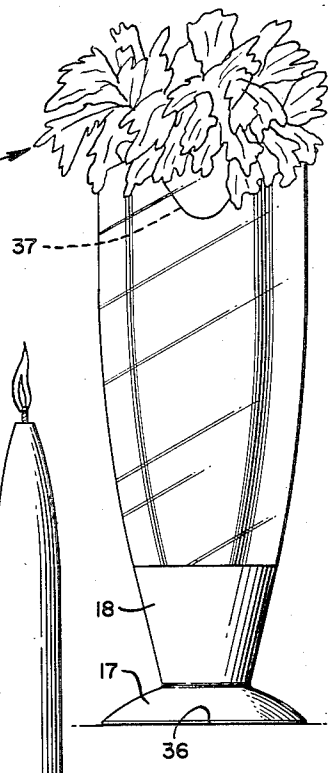



Fig. 7.

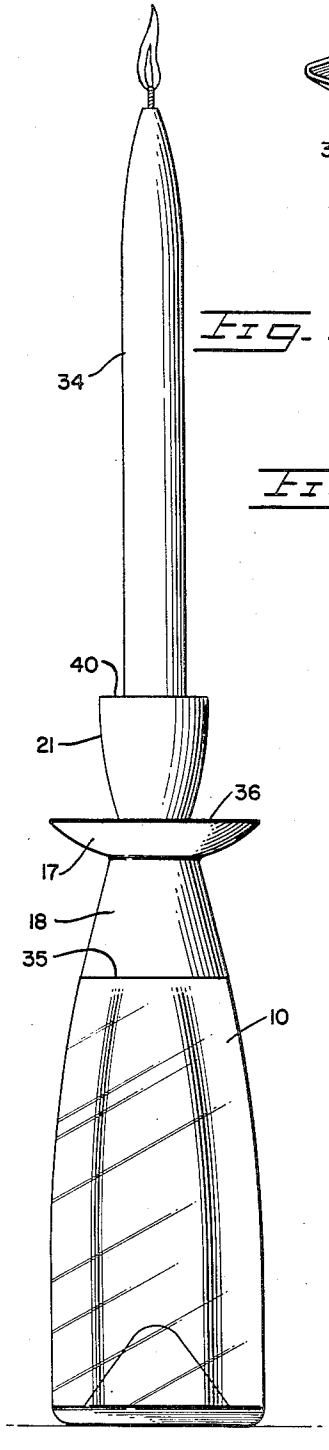



Fig. 8.

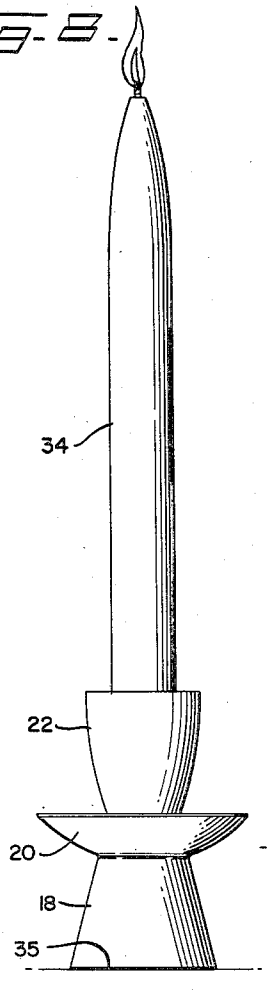
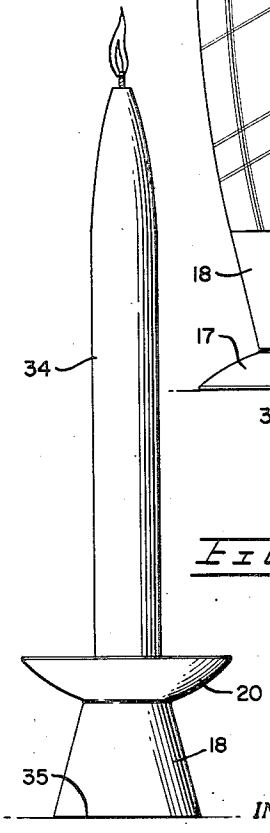



Fig. 9.




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2,827,194

# BOTTLE CAP AND SUPPORT ASSEMBLY

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Application September 12, 1956, Serial No. 609,465

3 Claims. (Cl. 215—73)

This invention relates to a combination bottle cap and support assembly, and more particularly to a receptacle, stopper and pouring lip assembly for a bottle.

The primary object of this invention is to provide a novel cap assembly for a bottle.

A further object of this invention is to provide a receptacle, stopper and pouring lip assembly which is adapted to be removably secured to the neck, rim and orifice of a decanter.

Another object of this invention is to provide a receptacle, stopper and pouring lip assembly which comprises two separable units, each of a particular construction, which may be quickly and easily secured to the neck, rim and orifice of a bottle.

A further object of this invention is to provide a cap assembly for a bottle which has a minimum of parts and which is economical to manufacture.

Still another object of this invention is to provide a receptacle, stopper and pouring lip assembly for a bottle wherein the assembly comprises two separable units which have a variety of other uses when employed singly or in combination with each other and/or with the bottle.

In attaining the objects of this invention, one feature resides in providing the annular ring overlying and engaging the rim of a bottle and an outwardly and upwardly arced flange integral with and extending laterally from the outer periphery of the ring.

Another feature resides in providing a truncated conical member secured to and depending from the lower surface of the arced flange about the annular ring so as to envelop the neck of the bottle.

Still another feature resides in providing a support member having a peripheral rim extending laterally from its base portion and adapted to engage the upper surface of the annular ring so as to support the member on the ring.

A further feature resides in providing a stopper which is attached to and depends from the base portion of the support member so as to firmly secure the member to the annular ring when the stopper is inserted into the orifice of a bottle.

Other objects, features and advantages will be more apparent from the following description of the invention taken in conjunction with the drawing wherein:

Fig. 1 is a front elevational view of an embodiment of the invention;

Fig. 2 is a vertical cross-sectional view taken along line 2—2 of Fig. 1;

Fig. 3 is an exploded view of the embodiment of the invention shown in Fig. 1;

Fig. 4 is a top plan view of the invention of Fig. 1;

Fig. 5 is a horizontal cross-sectional view of the invention taken along line 5—5 of Fig. 2;

Fig. 6 is a front elevational and partial cross-sectional view of the bottle cap assembly illustrated in Fig. 1; and

Figs. 7 through 11, inclusive, are examples of some of the several uses of the invention illustrated in the foregoing figures.



As illustrated in the drawing, the bottle 10 has a neck 11, rim 12 and orifice 13, with neck 11 being provided with external threads 14 for threadingly engaging the cap assembly 15 and securing the assembly to the bottle. Cap assembly 15 includes an annular ring 16 overlying the rim 12 of the bottle and an outwardly and upwardly extending arced annular flange 17 integral with and extending laterally from the annular ring 16. Flange 17 and annular ring 16 may be further described as a concave plate having a centrally disposed opening therethrough aligned with the bottle orifice 13 and the bottom edge surface of the concave plate about the periphery of the opening overlying and engaging the rim 12 of the bottle. Truncated conical member 18, integral with and depending from the lower surface 19 of flange 17 about the periphery of the annular ring 16, is provided with internal threads 20 adapted to engage external threads 14 on the neck 11 of the bottle and secure the truncated conical member 18 and annular arced flange 17 thereto.

Cap assembly 15 also includes a support member 21 having upwardly extending side walls 22, a base portion 23 and a stopper 24. The latter includes a stud 25 integral with and depending from the base portion 23 and having a diameter less than that of the base portion. Lower end 26 of stud 25 is provided with an annular shoulder 27 which keeps the cylindrical cork 28 and washer 29 in place about the stud 25.

Support member or receptacle 21 also is provided with a peripheral rim 30 extending laterally from the base portion 23 and engaging the upper surface 31 of annular ring 16 so as to support the receptacle 21 upon the annular ring.

To provide a contiguous outer surface for the bottle and truncated conical member 18 of the cap assembly, the upper portion 32 of the bottle 10 is abruptly reduced in diameter to form a shoulder 33. When the cap assembly 15 is threaded onto the neck 11 of the bottle, the truncated conical member 18 reaches to the top of shoulder 33 and the member 18 is of such a thickness as to provide a substantially even exterior surface from the bottom to the top of the bottle.

In normal use, flange 17 provides a pouring lip for the contents of the bottle and also prevents the drippings of the bottle contents along the exterior surface of the bottle. Arced flange 17 also provides easy access to the interior of the bottle of any liquid drops which remain on the pouring lip subsequent to pouring of a portion of the contents from the bottle. Because of its arced configuration, flange 17 may act as a funnel when liquid is poured into the bottle. When truncated conical member 18 is secured to the neck of the bottle 10, the flange 17 also acts as a guard which prevents the slipping of the bottle from the hand of the holder.

If desired, receptacle 21 may be provided with measuring indicia so that the contents of the bottle may be poured directly into the receptacle 21 up to the desired volume. For this purpose, the receptacle 21 may be made of glass or other transparent material. If the receptacle 21 is made of a non-transparent material, measuring indicia may be placed on its inner surface.

The structure of the combination bottle cap and support assembly is such that it provides several additional and unexpected uses when it is either attached to the neck of the bottle or used separately from the bottle. Several examples of such additional uses are illustrated in Figs. 7 to 11, inclusive, of the drawing. In Fig. 7, the bottle and cap assembly provide an excellent candle holder for the candle 34. In Fig. 8, the support assembly is shown removed from the bottle and supported upon a flat surface by the outermost rim 35 of truncated conical member 18. In Fig. 9 support member 21 has been removed from its association with the truncated

conical member 18, and the member 18 has a candle 34 inserted within the opening of the annular ring 16.

The arced flange 17, which resembles a concave plate with an opening centrally disposed therethrough, is capable of receiving and supporting a dish, ash tray, or other convex-shaped receptacle thereon as illustrated in Fig. 10. Further, by removing receptacle 21 from its position with respect to flange 17 and annular ring 16, and inverting the bottle so as to support it upon the outer edge 36 of flange 17, florist's putty or frogs may be placed in the conical recess 37 in the bottom 38 of the bottle in order to hold flowers, greenery, or other small plants indicated at 39, Fig. 11.

The basic components of this invention may be used in ways other than those illustrated in the drawing. For example, the unit illustrated in Fig. 9 may be threaded onto the neck of bottle 10 to form a candlestick holder; truncated conical member 18 may also be used without the bottle and inverted so that it is supported on the outer rim 36 of flange 17 with candle 34 projecting upwardly from the interior of conical member 18; conical member 18 may be supported by edge 36 of flange 17 and used as a cigarette or match holder; bottle 10 may be used in its normal upright position with only conical member 18 and flange 17 threaded thereon and wired to provide electricity for a lamp having a bulb mounted in the annular ring 16, a glass bowl reflector mounted on top of ring 16, and a lamp shade supported by the reflector.

The cap assembly of this invention may also be supported by either the outer edge 35 of truncated conical member 18 or the outer edge 40 of support member 21 so that a plurality of objects may be supported either within the confines of the truncated conical member 18 or receptacle 21 respectively or upon their outer edges 35, 40 respectively.

Although one specific embodiment of the invention has been shown and described, it will be understood that this embodiment is merely illustrative and that various modifications may be made without departing from the scope of this invention as defined in the claims.

Having described the invention what is claimed is:

1. For use in combination with a bottle having a neck, rim and orifice, a receptacle, stopper and pouring lip assembly comprising an annular ring overlying the rim of said bottle, an outwardly and upwardly arced flange integral with and extending laterally from said ring, a truncated conical member secured to and depending from the lower surface of said flange about said ring, said conical member enveloping the neck of said bottle, a receptacle having a base portion and side walls extending upwardly from the periphery of said base portion, a peripheral rim extending laterally from said base portion, said peripheral rim engaging the upper surface of said annular ring and supporting said receptacle thereon, and a stopper secured to and depending from the base portion of said receptacle, said receptacle being firmly secured to said ring when said stopper is inserted into the orifice of said bottle.



2. An object supporting assembly comprising an upwardly tapering truncated conical base member, an annular ring affixed to the periphery of the uppermost edge of said base member, an annular arced flange extending laterally and upwardly from said annular ring, a support member having a base portion and diverging side walls extending upwardly from the periphery of said base portion, and a peripheral rim extending laterally from said base portion and engaging the upper surface of said annular ring, said support member being supported upon said ring by said peripheral rim.

3. For use in combination with a bottle having an upwardly and inwardly tapering neck, rim and orifice, a receptacle, stopper and pouring lip assembly comprising an annular ring overlying the rim of said bottle, an outwardly and upwardly arced flange integral with and extending laterally from said ring, a truncated tubular member secured to and depending downwardly and outwardly from the lower surface of said flange about said ring, said truncated tubular member enveloping the neck of said bottle, a receptacle having a base portion and side walls extending upwardly from the periphery of said base portion, a peripheral rim extending laterally from said base portion, said peripheral rim engaging the upper surface of said annular ring and supporting said receptacle thereon, and a stopper secured and depending from the base portion of said receptacle, said receptacle being firmly secured to said ring when said stopper is inserted into the orifice of said bottle.

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