April 21, 1931. C. J. ANDREWS 1,801,835

SUPPORT

Filed May 7, 1928

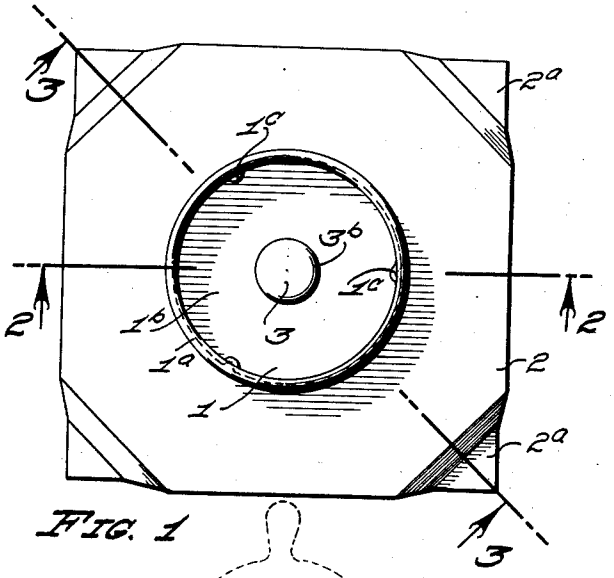


FIG. 1

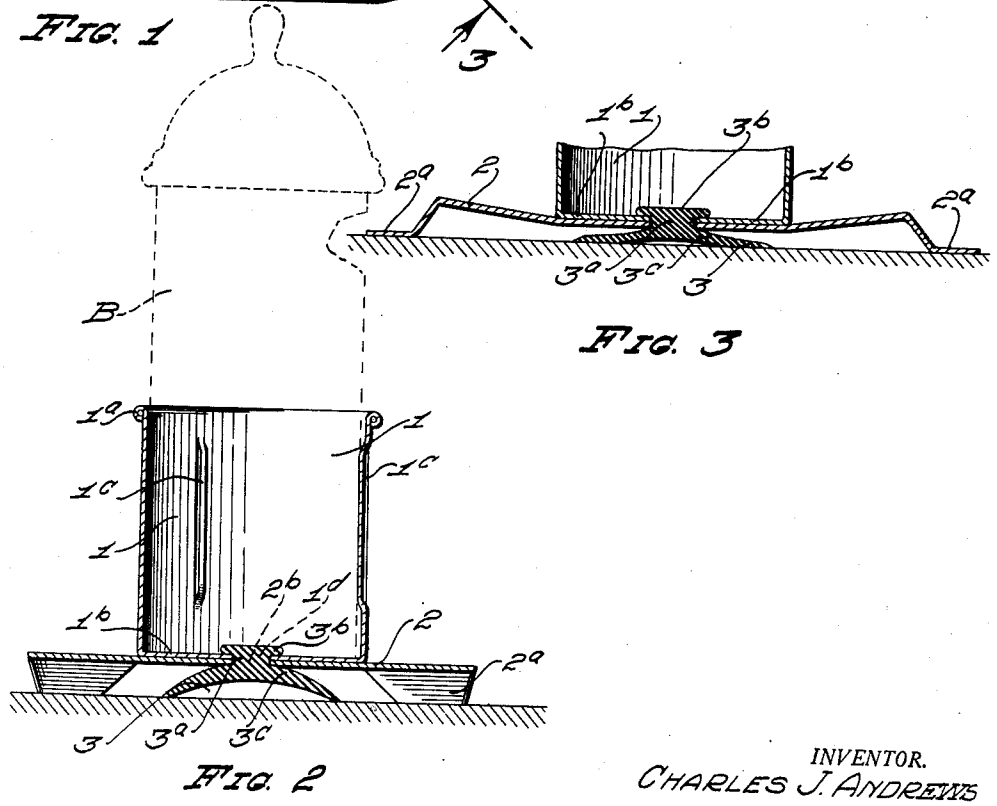


FIG. 3

FIG. 2

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UNITED STATES PATENT OFFICE

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SUPPORT

Application filed May 7, 1928. Serial No. 275,618.

My invention relates to stands or supports and more particularly to a stand for a nursing bottle or the like which may be readily affixed to a smooth surface and the objects of my invention are: First, to provide a stand for supporting a nursing bottle which will not readily tip over; second, to provide a stand which may be quickly removably affixed to any smooth surface; third, to provide a stand which when affixed to a surface will not slip when the latter is slightly inclined; Fourth, to provide a stand with a means for resiliently gripping a nursing bottle when inserted therein; and fifth, to provide a device of this class which is simple and economical of structure, which may be easily disassembled into its component parts and which will not readily deteriorate or get out of order.

With these and other objects in view as will appear hereinafter, my invention consists of certain novel features of construction, combination and arrangement of parts and portions as will be hereinafter described in detail and particularly set forth in the appended claims, reference being had to the accompanying drawings and to the characters of reference thereon which form a part of this application, in which:

Figure 1 is a plan view of my novel stand; Fig. 2 is a sectional view thereof taken along the line 2—2 of Fig. 1, and Fig. 3 is a fragmentary sectional view thereof taken along the line 3—3 of Fig. 1.

Similar characters of reference refer to similar parts and portions throughout the several views of the drawings.

The receptacle 1, plate 2, and vacuum cup 3 form the principal parts and portions of my novel stand.

The receptacle 1 is preferably made of thin sheet metal pressed into the form of a substantially cylindrical cup having upper beaded edges 1*a* and bottom member 1*b*. A number of longitudinally extending strips are extruded from the side of the receptacle forming inwardly projecting spring gripping portions 1*c* adapted to resiliently grip a nursing bottle or other container B, indicated in dotted lines in Fig. 2. The bottom member 1*b* is provided with the central opening 1*e* for receiving the neck portion 3*a* of a vacuum cup 3.

The receptacle 1 is supported on a plate member 2 which is made preferably of thin resilient metal and may be made substantially square in outline and of considerably larger dimensions than the diameter of the receptacle 1 in order to provide a stable base therefor. The four corners of the plate 2 are bent downwardly and the tips thereof bent outwardly forming feet 2*a* at each corner of the plate adapted to support the plate in raised position. The plate is provided with a central hole opening 2*b* of the same diameter as the opening 1*e* in the receptacle and is adapted to register therewith. The vacuum cup 3 is of conventional form and the head 3*b* thereof is inserted through the openings in the plate and receptacle so that the latter are held resiliently together between the head portion 3*b* and the shoulder portion 3*c* of the vacuum cup 3. The rim of the vacuum cup 3 in its normal unflexed form lies substantially in a common plane with the feet 2*a* of the plate 2, as shown best in Fig. 2 of the drawings. In affixing the stand to any surface desired a downward pressure is exerted on the receptacle 1 causing the inner portion of the plate 2 to bend downwardly whereby the vacuum cup 3 is flattened against the smooth surface thereby anchoring the stand firmly thereto.

The plate 2 is made of metal of sufficient resilience to enable it to regain its original form when the vacuum cup is released. The flexure of the plate 2 is, of course, for the purpose of insuring that all four feet 2*a* will bear upon the supporting surface on which the stand is anchored, so that a stable base is provided.

Owing to the simple method of securing the component parts together they may be readily disassembled for the purpose of changing or replacing a damaged part.

It is obvious that I have thus provided a stand for supporting a nursing bottle or other breakable article which may be readily placed on any convenient surface without fear of it being tipped over or sliding off the surface

when accidentally inclined or otherwise deranged.

While I have described my novel stand as being used for supporting a nursing bottle or the like, it is obvious that the receptacle 1 may be made to receive other articles such as ink bottles, vases or the like, and though I have shown and described a particular construction, combination and arrangement of parts and portions, I do not wish to be limited to this particular construction, combination and arrangement but desire to include in the scope of my invention the construction, combination and arrangement substantially as set forth in the appended claims.

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

1. In a device of the class described, a square plate having downwardly bent corners forming feet for supporting said plate in raised position, a central opening in said plate, a receptacle mounted on said plate having an opening registering with said first opening and a vacuum cup positioned under said plate, including a portion extending through said holes for resiliently securing said plate and receptacle together, said vacuum cup forming anchoring means for removably securing said device to a smooth surface.

2. In a device of the class described, a square plate of relatively resilient material, the corners thereof being bent downwardly and outwardly forming feet for supporting the central portion of the plate in raised position, a central opening in said plate, a receptacle supported on the upper surface of said plate having an opening in its bottom registering with said first opening, a vacuum cup having a neck portion adapted to extend through said openings and a head portion for holding said receptacle and plate together, the rim of the unflexed vacuum cup lying substantially in a common plane with the lower surface of said feet, whereby a slight pressure is exerted on said feet on pressing said cup against a smooth surface.

3. In a device of the class described, a receptacle for receiving a bottle including a tubular portion having a lower end portion, longitudinal, resilient binding portions extending within said receptacle for gripping the outer surface of said bottle, a plate portion extending outwardly from said bottom portion having feet at the outer margin thereof and a vacuum cup positioned under said plate and connected thereto adapted to anchor said plate to a smooth surface and cause said feet to bear thereon.

In testimony whereof, I have hereunto set my hand at San Diego, California, this 2d day of May, 1928.

CHARLES J. ANDREWS.