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MILK BOTTLE HOLDER

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Fig. 1

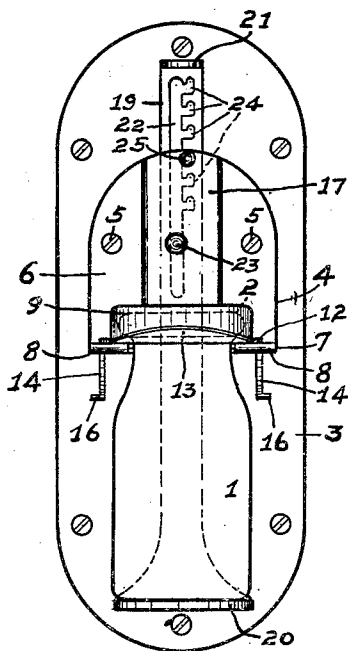


Fig. 2

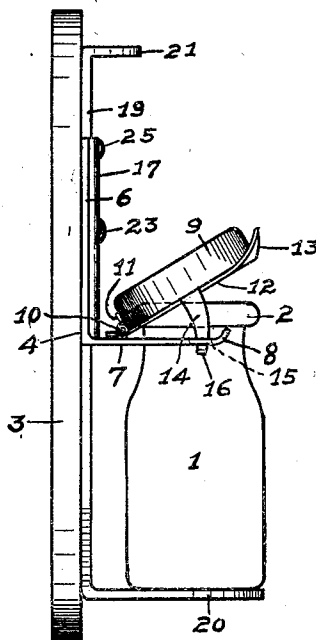


Fig. 3

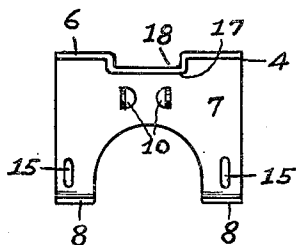
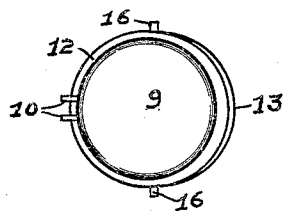


Fig. 4



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## UNITED STATES PATENT OFFICE

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## MILK BOTTLE HOLDER

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My invention relates to a milk bottle holder, and important objects of the invention are to provide a holder of the character described which may be readily manipulated to engage and secure a milk bottle of conventional configuration to prevent the accidental spilling or breakage of the latter and the consequent loss of its contents, which is simple in its construction and arrangement, durable and efficient in its use, attractive in appearance, and comparatively inexpensive to manufacture.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention hereinafter disclosed can be made within the scope of what is claimed without departing from the spirit of the invention.

In the drawings wherein like numerals of reference designate corresponding parts throughout the several views:—

Figure 1 is a front view of a milk bottle holder, constructed in accordance with the invention, with the retaining cap in the engaging position.

Figure 2 is a side elevation view thereof with the retaining cap in the releasing position.

Figures 3 and 4 are, respectively, top plan views of the suspension yoke and of the retaining cap.

Referring in detail to the drawings, 1 denotes a milk bottle of the usual conformation including the rounded top flange 2.

My improved holder comprises a flat, oblong, supporting plate 3, which is adapted to be fixed, in vertical position, against any suitable structure.

A substantially L-shaped suspension bracket 4 is fixed to the front side of supporting plate 3, by a pair of screws 5, and

consists of a vertically disposed back 6 and a horizontally disposed, forwardly projecting yoke 7. The latter is suitably shaped to partially surround the neck of the bottle 1, and is formed with upturned forward ends 8, which are adapted to engage the under side of the bottle flange 2 to eliminate the possibility of the bottle 1 accidentally slipping outward from its engagement with the yoke 7.

A hollow retaining cap 9 is hingedly connected, as at 10, at its rear end, to the top of the yoke 7. The hinge 10 is provided with a spring 11, which normally functions to maintain the retaining cap 9 in its engaging position.

The lower end of the retaining cap 9 is formed with an outwardly disposed annular flange 12, which is enlarged at its front side and turned upwardly to provide a lip 13. The retaining cap 9 overlaps the bottle flange 2, when the annular flange 12 thereof rests upon the upturned yoke ends 8, and prevents the removal of the bottle 1 from the yoke 7 until the retaining cap 9 is manually elevated on its hinged connection 10, against the action of the spring 11.

The retaining cap 9 is likewise elevated in positioning the bottle in the yoke 7. The provision of the lip 13 facilitates the engagement of the bottle flange 2 in the yoke 7.

A pair of diametrically opposed guide arms 14, is formed integrally with and depend from respective sides of the annular flange 12. The guide arms 14 extend through respective slots 15 formed in the yoke 7. The lower ends of the guide arms 14 are formed with stop lugs 16, which extend at right angles, relatively to the guide arms 14, and limit the upward releasing movement of the retaining cap 9. The guide arms 14 maintain the retaining cap 9 properly aligned on the yoke 7.

The suspension bracket back 6 is formed with a forwardly pressed portion 17 provided

ing a centrally disposed, vertically extending guide passage 18 when the suspension bracket 4 is assembled to the supporting plate 3. An adjusting bar 19, carrying a forwardly projecting supporting member 20 at its lower end and a similarly disposed adjusting lug 21 at its upper end, is slidably mounted for vertical adjustment in the guide passage 18. The upper end portion of the adjusting bar 19 is formed with an elongated, vertically disposed slot 22. A pin 23, extending through the forwardly pressed portion 17 of the suspension bracket 4 and fixed in the supporting plate 3, projects through the slot 22 in the adjusting bar 19 and limits the vertical movement of the latter in the guide passage 18.

One side of the upper portion of the adjusting bar 19 is formed with a plurality of regularly spaced recesses 24, all of which open into the slot 22. The recesses 24 are adapted for engagement by a pin 25, which extends through the forwardly pressed portion 17 of the suspension bracket 4 and is fixed in the supporting plate 3.

The width of the adjusting bar 19 is considerably less than the width of the guide passage 18, whereby clearance is provided permitting movement of the adjusting bar 19 in the guide passage 18 to allow the engagement of any of the recesses 24 with the pins 25.

In using my improved holder in connection with the ordinary glass milk bottle, the adjusting bar 19 and associated parts are not required, as a glass bottle may be suspended from the yoke 7. However, in using milk containers constructed from non-rigid material, namely, paper and the like, its support by the supporting member 20 is essential. The adjustment of the bar 19, in the manner stated, positions the supporting member 20, to allow the bottom of the bottle to rest thereon.

The present invention provides a most efficient device of its kind, which will conveniently support and secure a bottle for the purposes set forth.

What I claim is:

In combination, a bottle holder of the character described comprising a suspension bracket formed to provide a yoke adapted for engaging the bottle, a retaining cap pivotally connected to said yoke and shiftable relatively to the latter for securing said bottle in said yoke and for effecting the release of the bottle from the latter, a resilient element engaging said yoke and said retaining cap for normally maintaining the latter in the securing position, the outer ends of said yoke being disposed upwardly, a pair of guide arms carried by said retaining cap and extending through said yoke for maintaining the proper alignment of said retaining cap on the latter, a stop lug carried by

the lower end of each of said pair of guide arms and engaging said yoke for limiting the releasing movement of said retaining cap, a forwardly inclining lip carried by the forward side of said retaining cap to facilitate the manipulation of the latter, and a supporting element connected with said suspension bracket and vertically adjustable relatively to the latter.

In testimony whereof I affix my signature.  
JOSEPH G. GAVLAK.