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F. C. PEACOCK

3,160,304

HOOK RING ATTACHMENT

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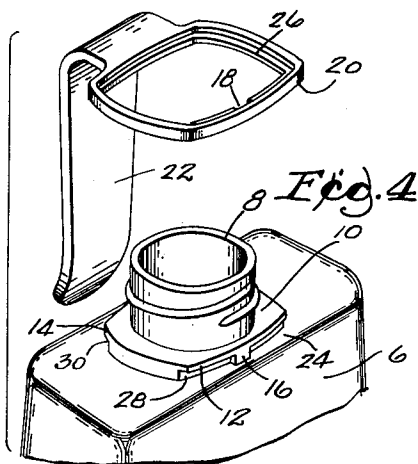
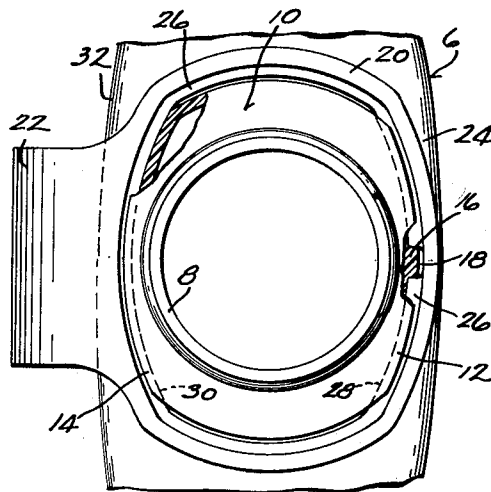
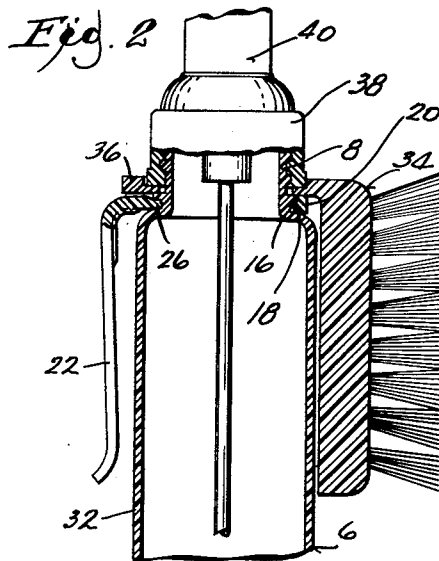
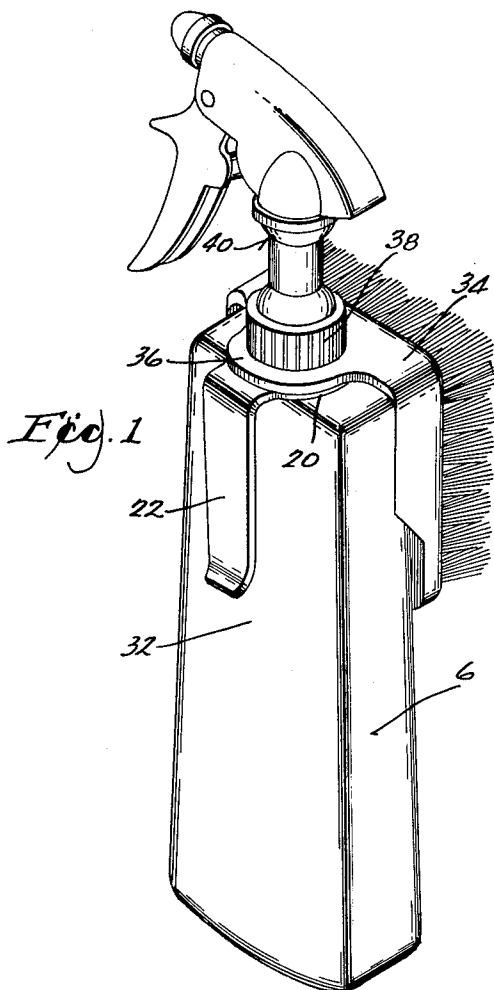


Fig. 3

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6 Claims. (Cl. 215-100)

This invention relates to a spray bottle with a belt hook detachably interlocked therewith.

In addition to being conventionally equipped with a spray pump and nozzle and a brush, a bottle embodying the invention has a boss surrounding the base of its threaded spout. At least a portion of the boss includes a channel interrupted by a lug for keying to the bottle a ring which snaps into the channel and to which the belt clip is attached.

In the specific embodiment illustrated, the boss and the ring are not exactly circular but are oblate, the longer arcuate sides of the boss having channels and the shorter arcuate sides being unchanneled. The ring is molded of plastic and has a notch complementary to a lug which interrupts one channel in the boss. The notch might be in either side of the ring but in the exemplification illustrated, it is on the side remote from the clip or hook which engages the user's belt. The polyethylene or other resin from which the ring and hook are molded has sufficient resilience that the ring may be snapped to and from engagement with the bottle.

In the drawings:

FIG. 1 is a view in perspective of a spray bottle equipped with a separable hook in accordance with the present invention.

FIG. 2 is an enlarged fragmentary detail view partially in side elevation and partially in transverse section through the bottle neck and associated parts, including the hook ring.

FIG. 3 is a further enlarged detail view showing the bottle and hook ring in plan, with portions broken away.

FIG. 4 is a fragmentary detail view in perspective showing the hook ring and upper portion of the bottle in mutually separated positions.

The bottle 6 has a threaded neck 8 surrounded by a boss 10 which, as shown in this exemplification, is oblate in plan and includes integral overhanging flanges 12 and 14 on the longer arcuate sides. These flanges form channels 28 and 30 which receive portions of the hook ring 20 to which the belt hook or clip 22 is integrally attached.

The hook ring 20 and the boss 10 have complementary interlocking lug and notch parts 16 and 18. In this embodiment, the lug 16 extends integrally from flange 12 to the underlying shoulder 24 of the bottle and the notch 18 is formed in the inner perimeter of the hook ring 20. In the preferred embodiment disclosed, the notched inner perimeter of the hook ring has the form of a flange 26 of reduced thickness receivable into the channels 28 and 30 which lie beneath the flanges 12 and 14 of boss 10.

The elasticity of the material from which the hook ring is molded permits it to be sprung over the flanges 12 and 14 of boss 10, thus engaging the flange portions 26 of the hook ring in the channels 28 and 30 of boss 10. The hook ring is keyed not only by the fact that it and the boss have complementary non-circular form but further by the interlocking engagement of the lug and notch portions 16 and 18.

In this manner, the hook ring is securely fixed to the bottle 6 in a position which holds the hook 22 parallel to

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but slightly spaced from the side face 32 of bottle 6. Unlike the brush and pump, which require some extraneous means of connection, the hook ring is retained by direct interlock with the bottle.

5 The hook ring will remain fixed to the bottle notwithstanding application to or removal from the bottle of the accessory equipment mounted thereon. In accordance with conventional practice, this equipment includes a brush 34 which engages the face of the bottle opposite the hook 22 and has an apertured bracket member 36 through which the neck 8 of the bottle extends, the brush bracket being anchored to the bottle by a screw cap 38 which also holds to the neck of the bottle the pump assembly 40. Neither the pump nor the brush forms any part of the present invention.

I claim:

1. A bottle having in combination a neck provided with a boss at its base and a shoulder underlying the boss and from which the boss extends, the boss having overhanging flange means spaced from the shoulder for providing a channel, and a belt hook having a resilient mounting ring connected therewith and encircling the boss and detachably engaged in the channel whereby to be fixed to the bottle independently of the neck thereof.

25 2. A bottle according to claim 1 in which the boss and the ring have complementary non-circular form.

3. A bottle according to claim 1 in which the boss and the ring have complementary portions respectively provided with a lug and with a notch whereby the ring is keyed against rotation upon the boss and the hook connected with the ring is positioned respecting the side of the bottle.

4. A bottle according to claim 1 in which the boss is of generally oblate form having overhanging flanges upon two opposite sides to provide the channel means aforesaid, the hook ring being of complementary oblate form and having an inner perimeter of reduced thickness fitted dimensionally within the channels, the boss being provided at least at one side with a lug interrupting one channel and extending toward the bottle from the overhanging flange which forms said one channel, the hook ring having in its reduced inner perimeter a notch in which the lug is in keyed engagement.

5. For use in the retention of an accessory, a bottle provided at its upper end with a reduced neck and integrally having a boss disposed at the end of the bottle about said neck, the bottle having a shoulder and the boss having overhanging flange means spaced from the shoulder in the end of the bottle for retaining independently of said neck an accessory mounted on the bottle.

6. A bottle according to claim 5 in which a lug is integral with said flange and with the end of the bottle.

References Cited in the file of this patent

UNITED STATES PATENTS

D. 134,077	Clark	Oct. 13, 1942
378,276	Whittlesey	Feb. 21, 1888
487,502	Watson	Dec. 6, 1892
490,964	Helm	Jan. 31, 1893
978,736	Graham	Dec. 13, 1910
2,644,599	Blunt	July 7, 1953
2,920,779	Armitage	Jan. 12, 1960

FOREIGN PATENTS

11,237	Great Britain	1903
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