



US 20080093325A1

(19) **United States**

(12) **Patent Application Publication**  
**Costello**

(10) **Pub. No.: US 2008/0093325 A1**

(43) **Pub. Date: Apr. 24, 2008**

(54) **ALTERNATE CAPSTAND EQUIPPED WITH AFFIXATION MEANS**

**Publication Classification**

(76) Inventor: **Gerard M. Costello**, Wilmington, VT (US)

(51) **Int. Cl.**  
*B65D 41/04* (2006.01)  
*B65D 90/02* (2006.01)  
(52) **U.S. Cl.** ..... **215/44; 215/379**

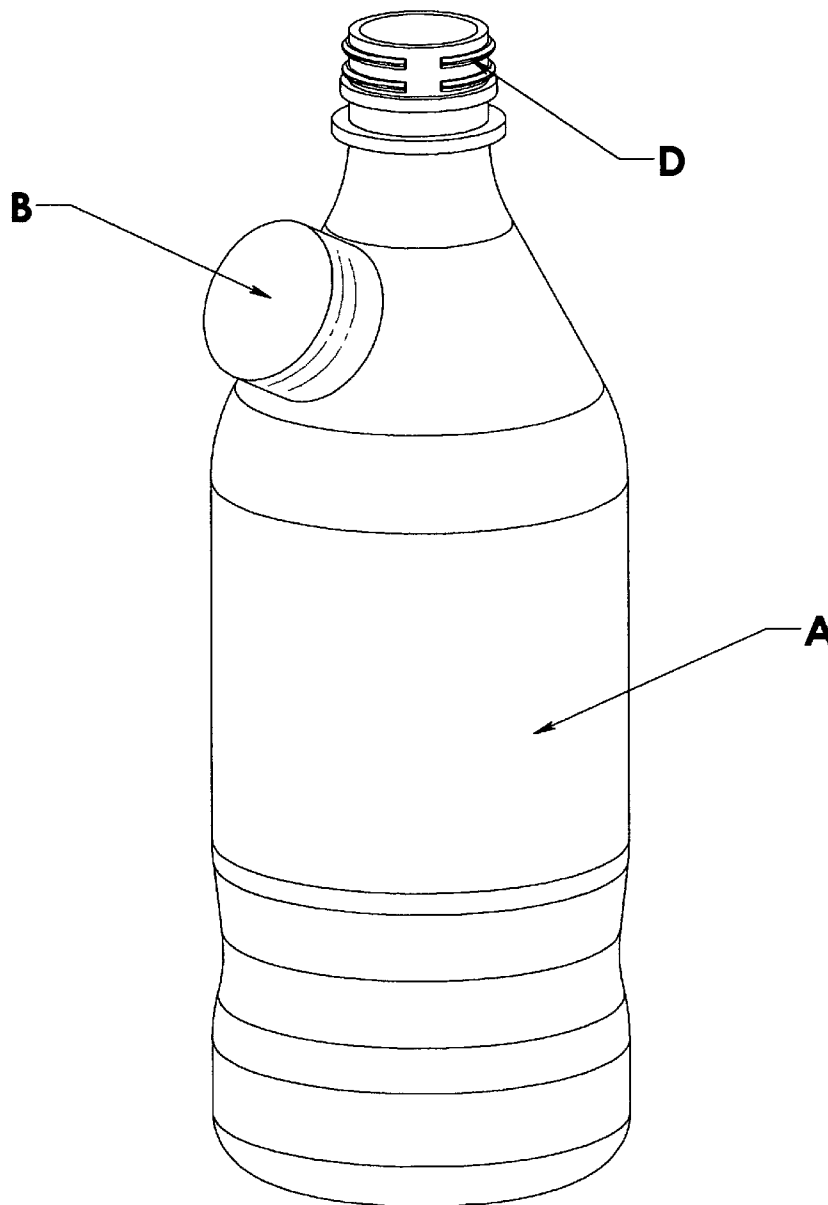
Correspondence Address:  
**John J. Welch, Ltd.**  
**8 E. Center Street**  
**Rutland, VT 05701**

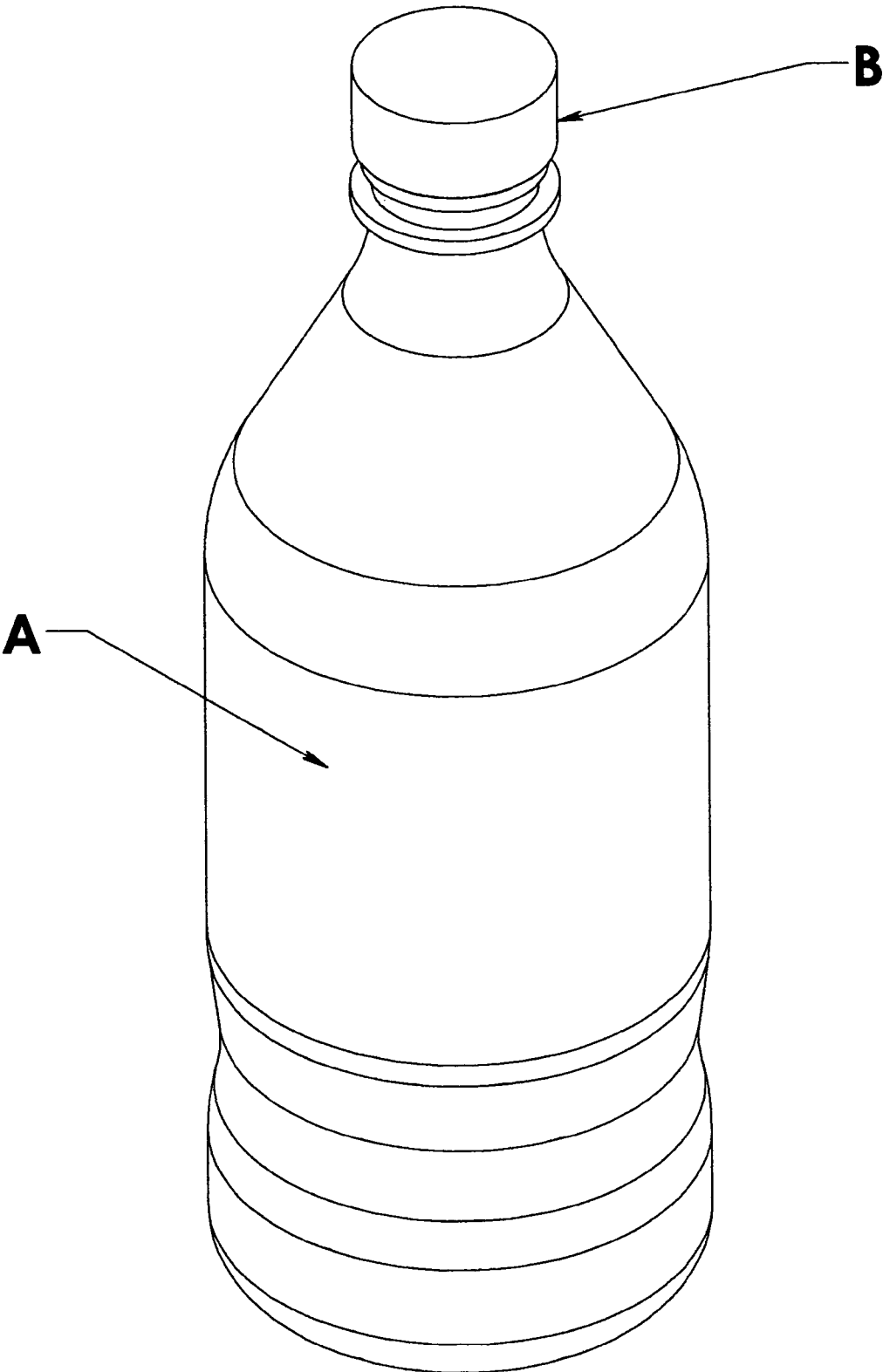
(57) **ABSTRACT**

The instant invention is an alternate capstand being cylindrically shaped in the form of a hollow ring with the bottom side thereof being contoured so as to fit snugly as against the exterior walling of, for example, a typical soda-pop bottle together with threading configured about the external walling of the capstand and further with the bottom side of the capstand being equipped with adhesive affixation means serving to ensure sturdy, dependable affixation of the invention to such exterior walling.

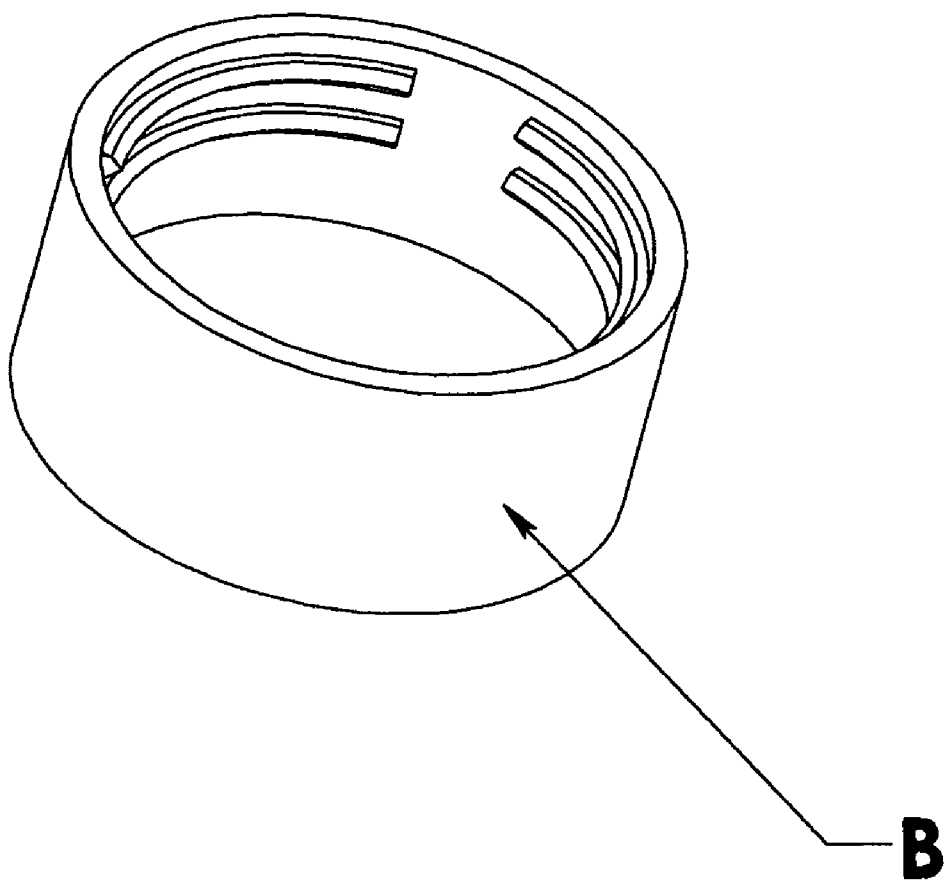
(21) Appl. No.: **11/523,823**

(22) Filed: **Sep. 19, 2006**

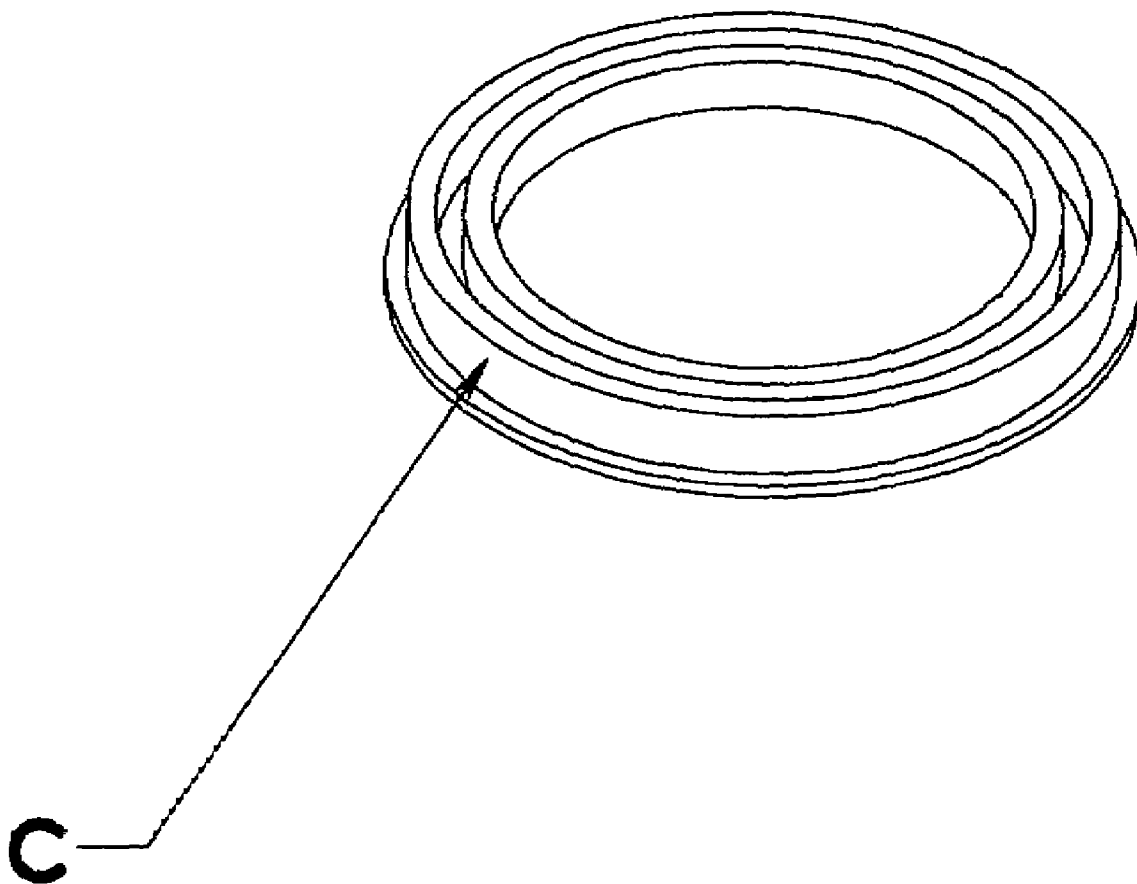




PRIOR ART  
FIG. 1



PRIOR ART  
FIG. 2



PRIOR ART  
FIG. 3

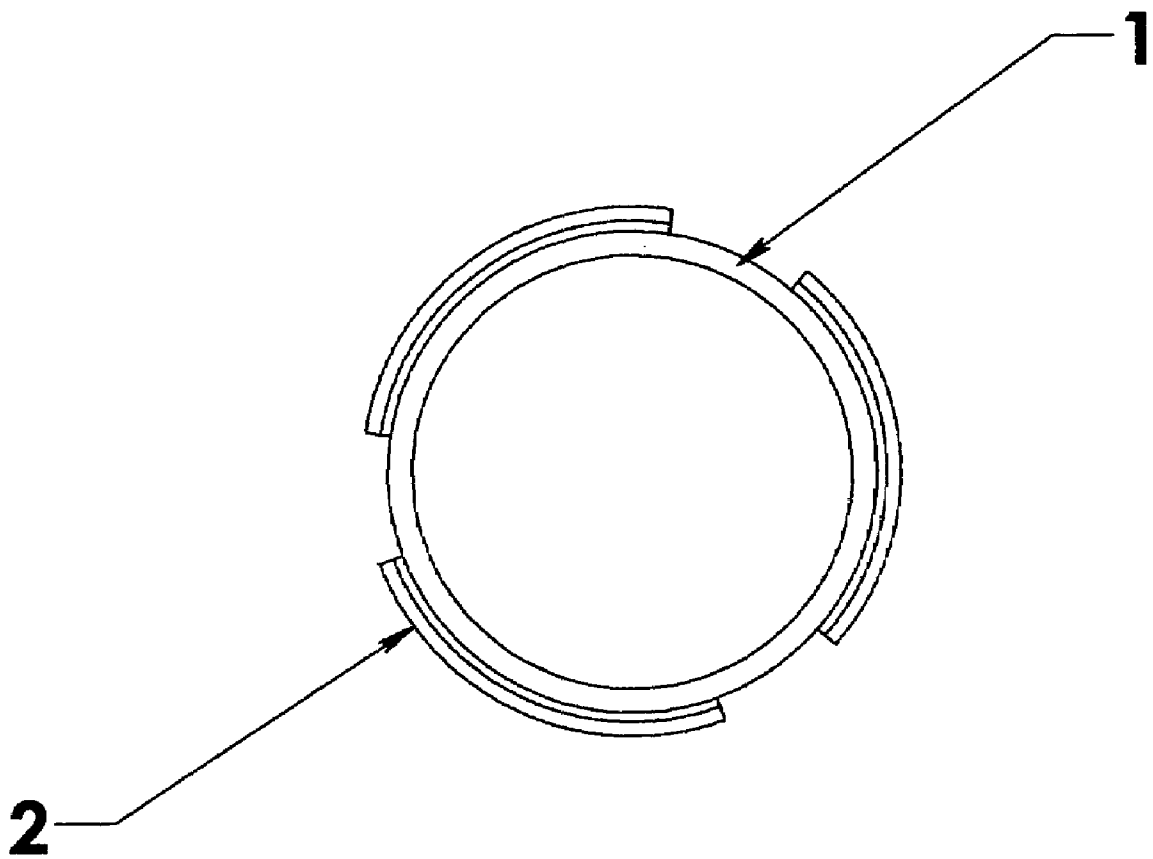


FIG. 4

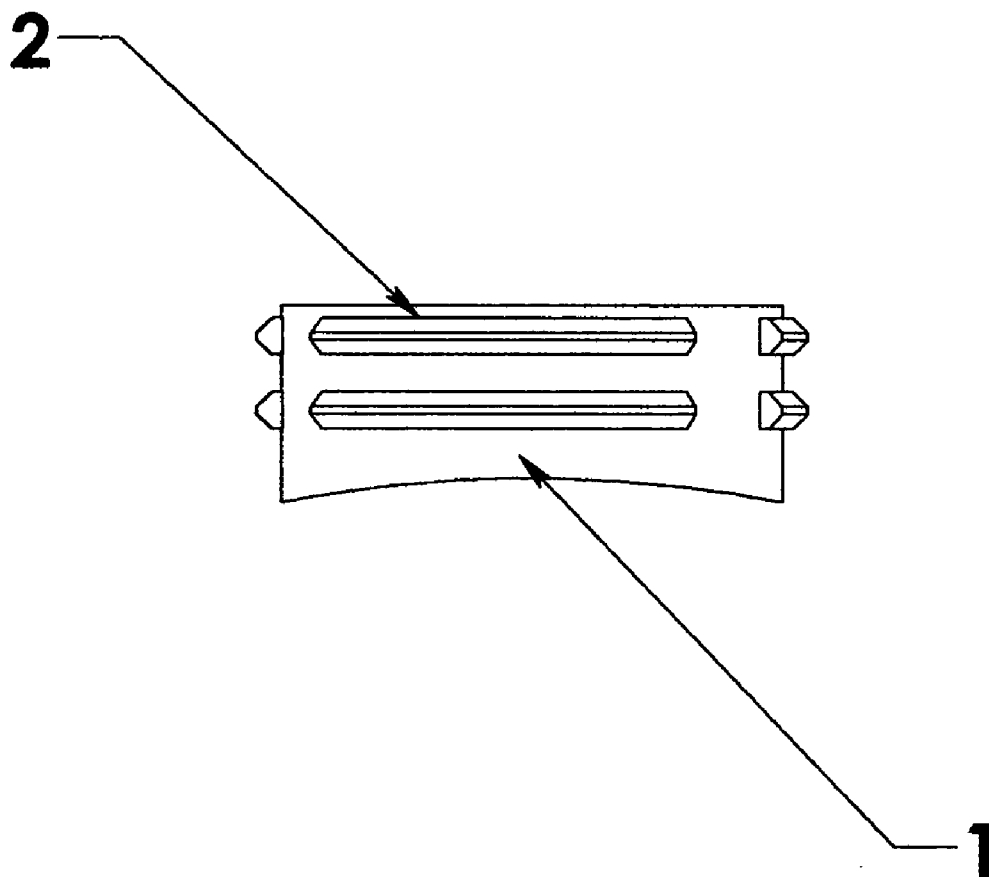


FIG. 5

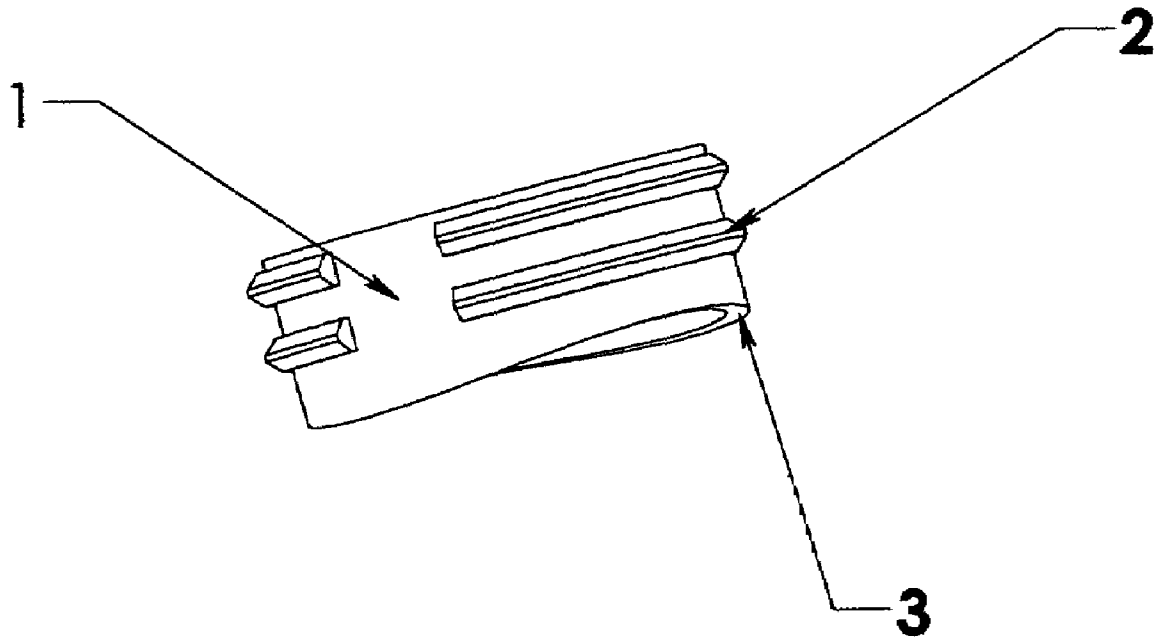


FIG. 6

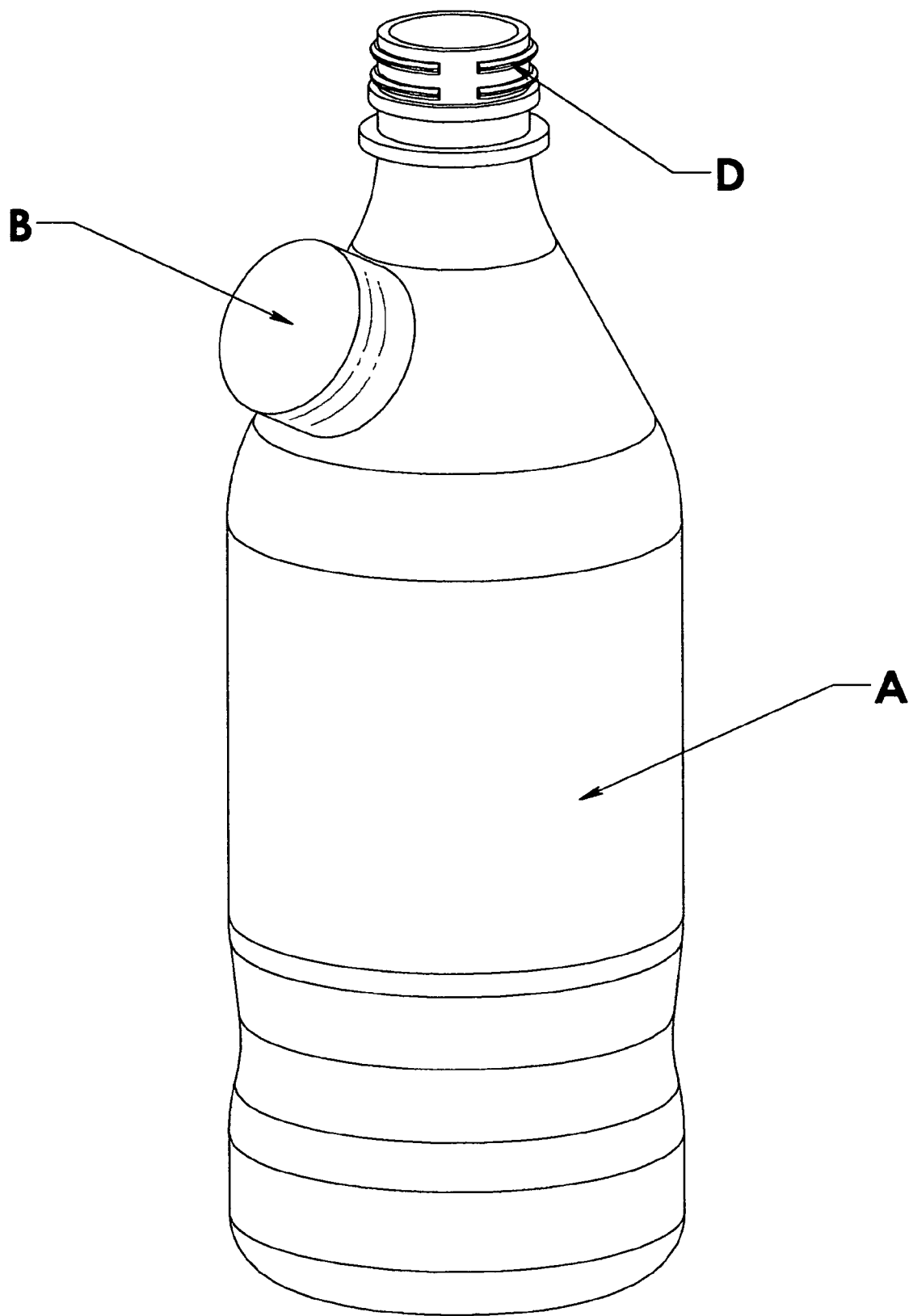


FIG. 7



**ALTERNATE CAPSTAND EQUIPPED WITH AFFIXATION MEANS**

**CROSS REFERENCES TO PRIOR OR PATENT APPLICATIONS**

[0001] There are no prior or parent applications in respect of the instant invention but reference is hereby had to a related application with application No.: 11/173,980 filed for and on behalf of Mr. Costello with a filing date of Jul. 5, 2005.

**FEDERALLY SPONSORED RESEARCH AND DEVELOPMENT**

[0002] There is no federally sponsored research and development in respect of the instant invention.

**BACKGROUND OF THE INVENTION**

[0003] 1. Field of the Invention

[0004] The instant invention relates to those devices admitting of means of holding the caps of empty bottles.

[0005] 2. Art Information

[0006] The devices references in the enclosed Art Information Statement, respectfully submitted, do not anticipate the instant invention.

**SUMMARY OF THE INVENTION**

**1. A Brief Description of the Invention**

[0007] The invention is a cylindrically shaped hollow ring unit with a bottom side thereof being contoured to fit snugly as against, for instance, the exterior walling of a typical glass or plastic soda-pop bottle or plastic motor oil bottle container. Affixation means such as a notably strong adhesive material is applied to the bottom side thereof so as to facilitate sturdy and dependable affixation of the invention to the exterior walling of the bottle. Moreover, the external walling of the ring unit is equipped with a threading configuration for acceptance of threading about the inner walling of a typical recessed bottle cap.

**2. OBJECTS OF THE INVENTION**

[0008] Bottles made of plastic when virtually empty are mostly always, in respect of waste disposal, subjected to crushing and compacting prior to perhaps any viable recycling of the same. Such bottles with caps as may have been snapped or screwed back onto the primary capstands thereof can be crushed only with a great deal of force, relatively stated, leading unavoidably to ultimately a blowing off of such caps by virtue of a concomitantly compressive expulsion of air trapped within such a capped bottle. This leads to an environmentally undesirable blowing about as well of the residual contents then still, more often than not, likewise trapped within the virtually empty bottle. If such contents are of the order of hazardous chemicals such as, for example, motor oil, the resultant post-blowout can have clearly untoward environmental repercussions. The instant invention serves to respond notably to such a thorny waste disposal problem.

[0009] The cap of the bottle once empty is simply affixed to the alternate capstand affixed to the exterior walling of the bottle leaving the primary capstand atop the bottle capless and the interior of the bottle concomitantly open to the exterior. Crushing and compression of a virtually empty

bottle, the cap of which would have been affixed to the instant invention in turn, itself affixed to the exterior walling of the bottle requires much less force to flatten such a bottle as would have been otherwise required as respects the crushing and compression flattening of conventionally capped bottles as noted above. There is, in respect of resort to utilization of the instant invention, accordingly, then no reason to fear the environmental pollution otherwise resulting from such invariably forced expulsion of any such residual bottle contents concomitant with the forced expulsion of trapped air, perforce of the presence of the cap of the bottle having been affixed to the primary capstand of the empty bottle, since, there is, with respect to the instant invention no possibility that there would ever be any such trapped internal air within it.

[0010] The instant invention is also extremely use just for the benefit of persons ingesting the contents of a glass or plastic bottle. This is because with resort to utilization of the invention, such persons would no longer need to carry the cap in one hand while using the other to ingest the contents or otherwise being in need of a free hand. Such persons would not need to place the cap somewhere away from the bottle while ingesting contents only to then have to be concerned with possibly misplacing the cap, or, having to perambulate while ingesting, then having to return to the site where the cap would have been originally placed prior to such ingestion.

[0011] In view of the foregoing, respectfully submitted, the instant invention is indeed new, useful and unquestionably unique.

**A DESCRIPTION OF THE DRAWINGS**

[0012] 1. FIG. 1 is an isometric depiction of a typical soda-pop bottle full of contents and capped.

[0013] 2. FIG. 2 is an isometric depiction of a typical recessed soda-pop bottle cap.

[0014] 3. FIG. 3 is an isometric depiction of a typical non-recessed snap on soda-pop bottle cap.

[0015] 4. FIG. 4 is a top plan view of the invention.

[0016] 5. FIG. 5 is a lateral plan view of the invention.

[0017] 6. FIG. 6 is a perspective view of the bottom side of the invention.

[0018] 7. FIG. 7 is an isometric depiction of the invention affixed to the bottle shown in FIG. 1, but now empty with a bottle cap in turn affixed to the invention.

**A DESCRIPTION OF THE PREFERRED EMBODIMENTS**

[0019] FIG. 1 is an isometric depiction of a prototypical soda-pop bottle A. FIG. 2 is an isometric depiction of a typical recessed soda-pop bottle cap B. FIG. 3 is an isometric depiction of a typical non-recessed snap-on soda-pop bottle cap C. FIG. 4 is a top plan view of the invention which encompasses initially, a hollow, cylindrically shaped ring unit 1. FIG. 5 is a lateral plan view of the invention showing the threading configuration 2 about the exterior walling of unit 1. Such threading serves to facilitate the interfacing of the threading about internal walling of a recessed bottle cap B to thereby hold it threadably to unit 1. FIG. 6, a perspective view of the bottom side of ring unit 1 depicts the bottom facing of unit 1 which bottom facing is appropriately contoured so as to enable ring unit 1 to fit snugly as against the exterior walling of bottle A via adhesive affixation means

applied to the bottom facing of unit 1. For a second embodiment, ring unit 1 as just described could be free of adhesive affixation means as just noted, and instead be affixed to the exterior walling of bottle A via affixation means applied to such exterior walling such as can be seen with resort to FIG. 7. FIG. 7 is reflective of use of either of the above-described two embodiments of the invention. Resort to FIG. 5 with respect to the locus of threading configuration 2 upon the external walling of unit 1 in respect of the threading free upper portion of such external walling enables one to gain an appreciation for how ring unit 1 can also holdably receive a non-recessed bottle cap such as cap C shown in FIG. 3.

[0020] Once the contents of a bottle A have been removed therefrom, bottle cap B, instead of being threadably replaced to the primary capstand D of bottle A, is threadably affixed to ring unit 1 adhesively affixed to the exterior walling of bottle A as shown in FIG. 7. In this way, as earlier noted, trapped air otherwise remnant within bottle A whenever bottle cap B would be threadably affixed atop an empty bottle A, is accordingly not therein present so as to thereby notably impede the crushing of bottle A during the end phase of bottle recycling. Spillage concerns at this juncture are essentially obviated given the affixation of the instant invention to the exterior walling of bottle A so as to then be amenable to receipt of a bottle cap B. Concomitant requisite crushing pressure is moreover notably reduced as well resulting in energy savings of no small significance when crushing involving perhaps thousands of bottles A equipped with the invention is meant to occur at some given time. Observations of a similar nature also apply with respect to the matter of a bottle cap C being initially on and then

removed from the primary capstand D of a bottle A to be later suitably pressed into place about the upper portion of affixed ring unit 1, the alternate capstand serving to hold the caps B or C of empty bottles A. Bottles A could be bottles holding liquid contents other than soda-pop, namely such other sorts of liquid contents as milk products or motor oil or even cleaning chemicals and the like.

[0021] In conclusion, it is further respectfully submitted that the instant invention will prove to be, at the very least, an enormous boon to the bottle recycling industry.

What is claimed is:

1. An alternate capstand equipped with affixation means, comprising:
  - a. a hollow, cylindrically shaped ring unit;
  - b. a bottom side of said ring unit being contoured so as to fit snugly as against exterior walling of a bottle;
  - c. external walling of said ring unit being equipped with a threading configuration, and;
  - d. affixation means applied to said bottom side for facilitating sturdy, dependable adherence of said bottom side to said exterior walling.
2. An alternate capstand, comprising:
  - a. a hollow, cylindrically shaped ring unit;
  - b. a bottom side of said ring unit being contoured so as to fit snugly as against exterior walling of a bottle;
  - c. external walling of said ring unit being equipped with a threading configuration, and;
  - d. said bottom side being amenable to adherence to said exterior walling by way of affixation means applied to said exterior walling.

\* \* \* \* \*