

Title (en)  
SAFETY BOTTLE CAP

Title (de)  
SICHERHEITSFLASCHENVERSCHLUSS

Title (fr)  
CAPSULE DE PROTECTION POUR BOUTEILLE

Publication  
**EP 1574450 A4 20060802 (EN)**

Application  
**EP 03815431 A 20031202**

Priority  
• IB 0306440 W 20031202  
• RU 2003101273 A 20030117

Abstract (en)  
[origin: EP1574450A1] The invention relates to closing devices for low-viscous liquid containers preventing the refilling thereof during storage and transportation. The inventive engineering solution is aimed at the improvement of the reliability thereof by using an additional safety level. The inventive bottle top comprises a screw cap which is fixed to an external sleeve with the aid of thread. Said external sleeve is connected to an internal sleeve by means of ribs in such a way that through channels are formed. The bottle top also comprises an elastic element provided with through holes and protrusions which form an annular open-top cavity containing the low part of the internal sleeve, thereby forming a space between the bottom and protrusions of the elastic element. The bottle top is provided with a metal enclosure which is fixed to the screw cap which is embodied with a control-indicating collar. Said metal enclosure is embodied in the form of two adjacent parts whose edges are seamed, thereby forming the indicating collar in such away that one of the edges is released when the top is unscrewed.

IPC 1-7  
**B65D 49/02**

IPC 8 full level  
**B65D 41/62** (2006.01); **B65D 49/02** (2006.01)

CPC (source: EP)  
**B65D 41/62** (2013.01); **B65D 49/02** (2013.01)

Citation (search report)  
• [Y] RU 2193000 C1 20021120 - INOSTRANNOE PROIZV UNITARNOE P [BY]  
• [Y] WO 02096771 A1 20021205 - MONTGOMERY DANIEL & SON LTD [GB], et al  
• See references of WO 2004065248A1

Cited by  
EP1927553A4; CN102633043A; EP1950144A1; EA012762B1; EA018520B1; BG1202U1; US8439213B2; EP2444334A1; WO2009095851A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)  
**EP 1574450 A1 20050914; EP 1574450 A4 20060802; EP 1574450 B1 20090701**; AT E435169 T1 20090715; AU 2003300684 A1 20040813; DE 03815431 T1 20061130; DE 60328221 D1 20090813; RU 2225337 C1 20040310; UA 74270 C2 20051115; WO 2004065248 A1 20040805

DOCDB simple family (application)  
**EP 03815431 A 20031202**; AT 03815431 T 20031202; AU 2003300684 A 20031202; DE 03815431 T 20031202; DE 60328221 T 20031202; IB 0306440 W 20031202; RU 2003101273 A 20030117; UA 20031212889 A 20031229