

Title (en)

SAFETY CLOSURE DEVICE FOR BOTTLES AND THE LIKE PROVIDED WITH A TAMPER OPTICAL INDICATOR

Title (de)

SICHERHEITSVERSCHLUSS MIT OPTISCHER GARANTIEANORDNUNG FÜR FLASCHEN

Title (fr)

DISPOSITIF DE FERMETURE DE SECURITE POUR BOUTEILLES ET SIMILAIRES COMPORTANT UN INDICATEUR VISUEL D'OUVERTURE ILLICITE

Publication

EP 1501741 B1 20070117 (EN)

Application

EP 02735975 A 20020507

Priority

IT 0200300 W 20020507

Abstract (en)

[origin: WO03095326A1] The present invention relates to a safety closure device (1) for bottles (2) and the like, provided with a tamper optical indicator, characterised in that it contains at least one disk member (40) which is transversal with respect to a cap (4), where said disk member (40) exhibits on its upper surface (41) at least one projection (43) and coupling means (39, 50) on its lower surface (42). Breakable container means (19) containing substances capable of changing the conditions of the visible zone through a transparent portion (20, 21) of the cap (4) is provided between the projection (43) of the upper surface of the disk member (40). In particular, the coupling means (39; 50) determines a relative movement between the disk member (40) and the breakable container means (19) when a user unscrews the cap (4) so as to cause the penetration between the projection (43) and the container means.

IPC 8 full level

B65D 55/02 (2006.01)

CPC (source: EP KR)

B65D 55/02 (2013.01 - KR); **B65D 55/026** (2013.01 - EP)

Cited by

EP3031744A4

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

WO 03095326 A1 20031120; AU 2002309255 A1 20031111; CN 1325338 C 20070711; CN 1625511 A 20050608; DE 60217730 D1 20070308; EA 005885 B1 20050630; EA 200401469 A1 20050428; EP 1501741 A1 20050202; EP 1501741 B1 20070117; KR 100799817 B1 20080131; KR 20040108780 A 20041224; UA 76041 C2 20060615

DOCDB simple family (application)

IT 0200300 W 20020507; AU 2002309255 A 20020507; CN 02828917 A 20020507; DE 60217730 T 20020507; EA 200401469 A 20020507; EP 02735975 A 20020507; KR 20047017875 A 20020507; UA 20041109077 A 20020507