

Title (en)
TAMPER PROOF CLOSURE FOR CONTAINERS OF LIQUIDS

Title (de)
GARANTIEVERSCHLUSS FÜR BEHÄLTER VON FLÜSSIGKEITEN

Title (fr)
FERMETURE INVOLABLE DESTINEE A DES RECIPIENTS POUR LIQUIDES

Publication
EP 1263659 A1 20021211 (EN)

Application
EP 01910088 A 20010312

Priority

- IB 0100360 W 20010312
- IT BO20000139 A 20000315

Abstract (en)
[origin: WO0168467A1] A tamper-proof closure element made of plastic material for containers (1) of drinks comprises a main body (2) with circular-cylindrical shape, i.e. circular-cone frustum shape, defined by an upper surface (3) and a lower annular coating (4) in a single body to enclose an end portion of the container (1), and a lateral portion provided with a pair of weakening and/or breakage lines (9a, 9b) extending from the free edge (4a) of the annular coating (4) for a length of a value (C); this pair of lines (9a, 9b) are mutually separated, in correspondence with their final segment situated far from the free edge (4a), by a value (A) and, in correspondence with the free edge (4a), by a value (B); these three values (A, B, C) are mutually computed at least as a function of the diameters (D, D1) and of the height (H) of the neck (6) of the container (1) and of the pressure present or able to be generated inside the container (1), in such a way as to allow, subsequently to the initial opening separation, through related manual grip means (10), of the main body (2) from the neck (6) and causing a partial or total breakage of the weakening and/or breakage lines (9a, 9b), the re-closure of the container (1) with the compensation of the pressure of the pressure present or able to be generated within the container itself (1).

IPC 1-7
B65D 41/32; **B65D 41/48**

IPC 8 full level
B65D 17/34 (2006.01); **B65D 41/48** (2006.01)

CPC (source: EP US)
B65D 41/48 (2013.01 - EP US)

Citation (search report)
See references of WO 0168467A1

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 0168467 A1 20010920; AU 3767101 A 20010924; EP 1263659 A1 20021211; IT 1320922 B1 20031210; IT BO20000139 A1 20010915; US 2003057174 A1 20030327

DOCDB simple family (application)
IB 0100360 W 20010312; AU 3767101 A 20010312; EP 01910088 A 20010312; IT BO20000139 A 20000315; US 92653001 A 20011115