

Title (en)
Closure cap

Title (de)
Verschlusskappe

Title (fr)
Bouchon de fermeture

Publication
EP 1273524 B1 20041201 (EN)

Application
EP 02078353 A 19991207

Priority
• EP 99958418 A 19991207
• US 39651199 A 19990915

Abstract (en)
[origin: EP1273524A2] An injection moulded, plastics material cap 1 for a screw top bottle has a top and a skirt with an anti-tamper band 2 connected to the skirt at a tear-off line by links 3. On the inside of the top of the cap, a depending annular ridge 10 is provided. Its inside diameter is such that it abuts and seals on the outside diameter of the distal end of neck of the bottle. Also on the inside of the cap, inside the ridge 10, is moulded, a forked feature having an inner limb 12 which extends generally downwards with an outwards bias, and an outer limb 13 which extends generally outwards with downwards bias. The inner limb is dimensioned to fit inside the mouth at the neck of the bottle, sealingly engaging it, whilst the outer limb is dimensioned to abut the end of the neck, also sealingly engaging it when the cap is screwed tight. On the inside of the anti-tamper band, upwardly and inwardly extending tongues 21 are provided. Adjacent ones of these are interconnected by webs 20 in the form of invert V folds. The folds extend up and out (radially) from the tongues. The latter have ribs 22 on their outer faces. Above the proximal ends of the tongues, a ridge 23 is provided around the inside of the band, at a position such that the ribs abut it when the tongues are pushed up, as on screwing of the cap onto the bottle. The combined action of the folded webs 20 and the resilience of the tongues 21 themselves causes them to spring inwards when pushed outwards during fitting of the cap to the bottle. The abutment of the ribs 22 against the ridge 23 limits the outwards movement of the tongues.

IPC 1-7
B65D 41/04; **B65D 41/34**

IPC 8 full level
B65D 53/02 (2006.01); **B42C 1/12** (2006.01); **B65D 1/00** (2006.01); **B65D 41/04** (2006.01); **B65D 41/34** (2006.01)

CPC (source: EP)
B65D 41/0421 (2013.01); **B65D 41/3428** (2013.01)

Cited by
CN111137550A; CN106494740A; CN103635398A; EP2694386A4; US9821934B2; WO2020021094A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
EP 1273524 A2 20030108; **EP 1273524 A3 20030521**; **EP 1273524 B1 20041201**; AT E246639 T1 20030815; AT E283802 T1 20041215; DE 69910264 D1 20030911; DE 69910264 T2 20040617; DE 69922423 D1 20050105; DE 69922423 T2 20051201; EP 1212243 A2 20020612; EP 1212243 B1 20030806; ID 28898 A 20010712; JP 2002537185 A 20021105

DOCDB simple family (application)
EP 02078353 A 19991207; AT 02078353 T 19991207; AT 99958418 T 19991207; DE 69910264 T 19991207; DE 69922423 T 19991207; EP 99958418 A 19991207; ID 20011225 A 19991207; JP 2000586594 A 19991207