

Title (en)  
Tamper evident closure

Title (de)  
Garantieverschluss

Title (fr)  
Fermeture inviolable

Publication  
**EP 1790582 A1 20070530 (DE)**

Application  
**EP 06022436 A 20061026**

Priority  
DE 102005056090 A 20051124

Abstract (en)  
The closure has a lower part, and a closing device (3) connected with the lower part. An outlet opening (2) is sealed in delivery state using a sealing unit (4) and has a hollow cylindrical inner surface. An auxiliary unit is provided for opening the sealed outlet opening by applying a force on the sealing unit and is attached to the closing unit. The sealing unit has a recess (5) with an inner contour that is in the form of a triangle, square, pentagon or hexagon. An independent claim is also included for a method of manufacturing a warranty closure.

IPC 8 full level  
**B65D 51/22** (2006.01)

CPC (source: EP)  
**B65D 35/44** (2013.01); **B65D 51/228** (2013.01); **B65D 2251/0015** (2013.01); **B65D 2251/0071** (2013.01)

Citation (search report)  
• [X] US 4747501 A 19880531 - GREAVES DENNIS [GB]  
• [X] WO 2004043816 A1 20040527 - HOFFMANN NEOPAC AG [CH], et al  
• [X] DE 29809353 U1 19990930 - TUBEX GMBH [DE]

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

Designated extension state (EPC)  
AL BA HR MK YU

DOCDB simple family (publication)  
**EP 1790582 A1 20070530; EP 1790582 B1 20081217**; AT E417792 T1 20090115; DE 102005056090 A1 20070531;  
DE 102005056090 B4 20130404; DE 502006002373 D1 20090129; ES 2319921 T3 20090514; PL 1790582 T3 20090831

DOCDB simple family (application)  
**EP 06022436 A 20061026**; AT 06022436 T 20061026; DE 102005056090 A 20051124; DE 502006002373 T 20061026;  
ES 06022436 T 20061026; PL 06022436 T 20061026