Title (en)
SELF-CLOSING VALVE

Title (de)
SELBSTSCHLIESSENDES VENTIL

Title (fr)
SOUPAPE À FERMETURE AUTOMATIQUE

Publication
EP 2004509 B1 20110608 (DE)

Application
EP 07727996 A 20070411

Priority
• EP 2007053528 W 20070411
• DE 102006017957 A 20060413

Abstract (en)
[origin: DE102006017957B3] The self-closing valve (01), e.g. for a toiletries squeeze bottle, has a valve membrane (02) with a dispensing opening (03) and an edge (11) around it. The membrane is switched between dispensing and closed settings by pressure difference. A limit stop (04) holds the membrane in the closed setting, while a limit ring (12) lies in a sealed fit against the opening edge in the closed position. A side guide (13) extends axially for the membrane edge to slide axially against it to change into the back suction setting where a gap (15) between the membrane edge and side guide is freed.

IPC 8 full level
B65D 47/20 (2006.01)

CPC (source: EP US)
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Cited by
CN108778942A

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 MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
US 2012024913 A1 20120202; AT E512079 T1 20110615; AU 2007239519 A1 20071025; BR PI0709511 A2 20110719; CN 101421170 A 20090429; CN 101421170 B 20100901; DE 102006017957 B3 20070516; DK 2004509 T3 20110919; EP 2004509 A1 20081224; EP 2004509 B1 20110608; ES 2367853 T3 20111110; JP 2009533284 A 20090917; MX 2008013151 A 20090123; PL 2004509 T3 20111230; RU 2008144657 A 20100520; RU 2432306 C2 20111027; WO 2007118833 A1 20071025

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US 29720907 A 20070411; AT 07727996 T 20070411; AU 2007239519 A 20070411; BR PI0709511 A 20070411; CN 200780013208 A 20070411; DE 102006017957 A 20060413; DK 07727996 T 20070411; EP 07727996 A 20070411; EP 2007053528 W 20070411; ES 07727996 T 20070411; JP 2009504743 A 20070411; MX 2008013151 A 20070411; PL 07727996 T 20070411; RU 2008144657 A 20070411