

Title (en)  
CONTAINER STOPPER WITH SHUT-OFF VALVE

Title (de)  
STÖPSEL MIT ABSPERRVENTIL

Title (fr)  
BOUCHON AVEC CLAPET POUR RECIPIENT

Publication  
**EP 0925230 B1 20010207 (FR)**

Application  
**EP 97928327 A 19970611**

Priority  
• FR 9701036 W 19970611  
• FR 9607340 A 19960613

Abstract (en)  
[origin: WO9747531A1] This stopper comprises a cylindrical part (1a) to be engaged in the neck (2a) of a container (2) and has a groove (3) which extends peripherally on at least one part of the cylindrical part (1a) circumference. Two channels (4 and 5), separated from each other, extend in the cylindrical part (1a) of the stopper and open into the groove (3) through orifices (4a and 5a) respectively spaced from each other in the groove (3) peripheral direction. A diaphragm (6) in elastomeric material closely matches the shape of the cylindrical part (1a) and the groove (3) surface covering the orifices (4a and 5a) of the two channels (4 and 5). The diaphragm (6) forms a shut-off valve that, by its elastic deformation, allows a fluid substance contained in the container (2) to flow from inside the container outwards, as well as from outside into the said container.

IPC 1-7  
**B65D 47/20**; **B65D 47/26**; **B65D 1/02**

IPC 8 full level  
**B65D 1/02** (2006.01); **B65D 47/20** (2006.01); **B65D 47/26** (2006.01)

CPC (source: EP KR US)  
**B65D 1/0292** (2013.01 - EP US); **B65D 47/20** (2013.01 - KR); **B65D 47/205** (2013.01 - EP US); **B65D 47/265** (2013.01 - EP US);  
**B65D 47/268** (2013.01 - EP US)

Cited by  
US10407221B2

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

DOCDB simple family (publication)  
**WO 9747531 A1 19971218**; AT E199079 T1 20010215; AU 3266597 A 19980107; AU 730070 B2 20010222; BR 9709704 A 19990810; CA 2258043 A1 19971218; CN 1221387 A 19990630; CZ 408698 A3 19991215; DE 69704061 D1 20010315; DE 69704061 T2 20010830; EP 0925230 A1 19990630; EP 0925230 B1 20010207; ES 2156388 T3 20010616; FR 2749830 A1 19971219; FR 2749830 B1 19980911; IL 126841 A0 19990922; IL 126841 A 20010826; JP 2000511854 A 20000912; KR 20000016573 A 20000325; NO 985811 D0 19981211; NO 985811 L 19990210; US 6116465 A 20000912

DOCDB simple family (application)  
**FR 9701036 W 19970611**; AT 97928327 T 19970611; AU 3266597 A 19970611; BR 9709704 A 19970611; CA 2258043 A 19970611; CN 97195447 A 19970611; CZ 408698 A 19970611; DE 69704061 T 19970611; EP 97928327 A 19970611; ES 97928327 T 19970611; FR 9607340 A 19960613; IL 12684197 A 19970611; JP 50130098 A 19970611; KR 19980710165 A 19981211; NO 985811 A 19981211; US 20273698 A 19981214