

Title (en)

Tamper evident closure for injection or infusion bottles

Title (de)

Verschluss mit Originalitätsskappe für Injektions- und Infusionsflaschen

Title (fr)

Fermeture de garantie pour flacons de perfusion

Publication

EP 0680889 B1 19990310 (DE)

Application

EP 95106007 A 19950421

Priority

DE 4415679 A 19940504

Abstract (en)

[origin: EP0680889A1] The top of the vaccine- or drip feed bottle is sealed with a plastic plug (5). An outer cover (4) is held on the seal by an integral metal ring (3) with a central gap (9) for the needle. A separate grip ring (1) under the sealing ring has an inner lipped profile (2) to grip the sealing plug and prevent it being displaced by the needle. The sealing plug (5) has an upper flange (7) which sits on the edge of the bottle and has an outer profile which is gripped by the lipped ring. The ring is further located inside the main sealing ring (3) for a secure fitting. <IMAGE>

IPC 1-7

B65D 51/00

IPC 8 full level

B67B 3/02 (2006.01); **A61J 1/05** (2006.01); **A61J 1/10** (2006.01); **B65D 39/04** (2006.01); **B65D 51/00** (2006.01); **B65D 51/18** (2006.01)

CPC (source: EP US)

B65D 51/002 (2013.01 - EP US)

Cited by

EP1009679A4; DE19754625A1; DE19754625C2; US6241112B1

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IE IT LI LU NL PT SE

DOCDB simple family (publication)

EP 0680889 A1 19951108; **EP 0680889 B1 19990310**; AT E177394 T1 19990315; CA 2148572 A1 19951105; CA 2148572 C 20060711; DE 4415679 A1 19951221; DE 59505239 D1 19990415; DK 0680889 T3 19990623; ES 2129694 T3 19990616; GR 3030088 T3 19990730; HK 1011960 A1 19990723; JP 3780009 B2 20060531; JP H07299118 A 19951114; US 5555988 A 19960917

DOCDB simple family (application)

EP 95106007 A 19950421; AT 95106007 T 19950421; CA 2148572 A 19950503; DE 4415679 A 19940504; DE 59505239 T 19950421; DK 95106007 T 19950421; ES 95106007 T 19950421; GR 990401170 T 19990430; HK 98113075 A 19981210; JP 10772095 A 19950502; US 43276595 A 19950502