

Title (en)
Bottle stopper or closure.

Title (de)
Flaschenstöpsel oder Verschluss.

Title (fr)
Bouchon ou fermeture pour bouteilles.

Publication
EP 0587983 B1 19951115 (DE)

Application
EP 93106591 A 19930423

Priority
DE 4228090 A 19920824

Abstract (en)
[origin: JPH0680153A] PURPOSE: To compensate a tolerance in production of individual components to be used, enable a cheaper production of a sealing device and a bottle to be used, secure a long time use without losing characteristics of the product, simplify manufacturing and assembling, and make it disposable. CONSTITUTION: A spring tongue 9 installed on a cover cap 6 is surrounded with external threads 10 and a supporting cap 11 cut out within an opening roof area 8 is engageable with the external threads 10.

IPC 1-7
B65D 51/00; **B65D 51/20**

IPC 8 full level
B65D 51/18 (2006.01); **B65D 51/00** (2006.01); **B65D 51/20** (2006.01); **B65D 53/04** (2006.01)

CPC (source: EP US)
B65D 51/002 (2013.01 - EP US); **B65D 51/20** (2013.01 - EP US); **B65D 2251/0015** (2013.01 - EP US); **B65D 2251/009** (2013.01 - EP US)

Designated contracting state (EPC)
DE DK ES FR GB IT

DOCDB simple family (publication)
DE 4228090 A1 19940303; **DE 4228090 C2 19950105**; DE 59300945 D1 19951221; DK 0587983 T3 19960304; EP 0587983 A1 19940323; EP 0587983 B1 19951115; ES 2081159 T3 19960216; JP 2598604 B2 19970409; JP H0680153 A 19940322; US 5316163 A 19940531

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DE 4228090 A 19920824; DE 59300945 T 19930423; DK 93106591 T 19930423; EP 93106591 A 19930423; ES 93106591 T 19930423; JP 15339993 A 19930624; US 5728593 A 19930504