

Title (en)  
A roll-on applicator

Title (de)  
Kugelauftragvorrichtung

Title (fr)  
Applicateur à bille

Publication  
**EP 0712592 B1 19991103 (EN)**

Application  
**EP 94870179 A 19941118**

Priority  
EP 94870179 A 19941118

Abstract (en)  
[origin: EP0712592A1] The present invention relates to a roll-on applicator (10) which prevents leakage or spillage without the need of the cooperation of a cap. This container comprises a ball (3) and a flexible and resilient support means (4) for said ball. Said flexible and resilient support means is such to urge said ball against said dispensing opening, achieving a leak-tight engagement between said ball and said dispensing opening. Furthermore, said flexible and resilient support means can be resiliently deformed by an external force acting on said ball to disengage said leak-tight engagement between said ball and said dispensing opening, allowing said contained product to be spread by said ball. <IMAGE>

IPC 1-7  
**A45D 34/04**

IPC 8 full level  
**A45D 34/04** (2006.01)

CPC (source: EP)  
**A45D 34/041** (2013.01)

Cited by  
FR2879417A1; EP1673997A1; US7841797B2; EP2108673A1; US10568446B2; US11882914B2; WO2021155454A1

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 0712592 A1 19960522; EP 0712592 B1 19991103**; AT E186183 T1 19991115; BR 9509785 A 19980609; CA 2204152 A1 19960530; CA 2204152 C 20011009; CN 1171729 A 19980128; DE 69421534 D1 19991209; DE 69421534 T2 20000518; DK 0712592 T3 20000410; ES 2138062 T3 20000101; GR 3031836 T3 20000229; JP H10509073 A 19980908; WO 9615694 A1 19960530

DOCDB simple family (application)  
**EP 94870179 A 19941118**; AT 94870179 T 19941118; BR 9509785 A 19951027; CA 2204152 A 19951027; CN 95197279 A 19951027; DE 69421534 T 19941118; DK 94870179 T 19941118; ES 94870179 T 19941118; GR 990402928 T 19991112; JP 51687396 A 19951027; US 9514014 W 19951027