

Title (en)  
A roll-on applicator

Title (de)  
Kugelauftragvorrichtung

Title (fr)  
Applicateur à bille

Publication  
**EP 0712592 A1 19960522 (EN)**

Application  
**EP 94870179 A 19941118**

Priority  
EP 94870179 A 19941118

Abstract (en)  
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)

Citation (search report)

- [X] GB 2215673 A 19890927 - UNILEVER PLC [GB]
- [X] GB 1515078 A 19780621 - COSTA A
- [X] US 2968826 A 19610124 - JOSEPH LESHIN
- [X] US 3336626 A 19670822 - SCHAICH WILBUR A
- [X] US 2719314 A 19551004 - TAUBE ZYGA S
- [X] FR 755153 A 19331121
- [X] FR 1136563 A 19570515 - PROD CHIM SOLOR SOC D
- [A] US 3088161 A 19630507 - SCHAICH WILBUR A

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

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