

Title (en)

Refill cartridge with sleeve for an adhesive stick

Title (de)

Nachfüllpatrone mit Muffe für einen Klebestift

Title (fr)

Cartouche de recharge avec manchon pour bâton adhésif

Publication

EP 0702913 A3 19990310 (DE)

Application

EP 95116099 A 19911106

Priority

- DE 4036396 A 19901115
- DE 4112432 A 19910416
- DE 4120969 A 19910625
- EP 91919143 A 19911106

Abstract (en)

[origin: WO9208388A1] A method is to be provided for a stick (14) of deodorant, adhesive, lipstick, releasing agent, shaving soap or colour pen, for example, optionally closable by a cap and surrounded by a casing (15) open at at least one end, with a piston (5, 11, 19) movable axially longitudinally along the casing (15) for dispensing a preferably brushable compound inside the casing, which allows the essential, non-consumable parts of the stick (14) to be repeatedly re-used. This is achieved by means of a refill (1, 1a, 1b, 1c, 1d, 1e) which consists essentially of a moulding (2) of the preferably brushable compound (23) shaped to fit the free internal volume and internal shape of the casing (15).

IPC 1-7

A45D 40/04; **A45D 40/16**

IPC 8 full level

A45D 40/02 (2006.01); **A45D 40/04** (2006.01); **A45D 40/16** (2006.01); **A45D 40/20** (2006.01); **B43M 11/00** (2006.01); **B65D 83/00** (2006.01)

CPC (source: EP)

A45D 40/04 (2013.01); **A45D 40/16** (2013.01)

Citation (search report)

- [A] US 3217869 A 19651116 - KATZ RONALD M, et al
- [DA] DE 1003411 B 19570228 - GUGLIELMO BOMPIANI
- [DA] FR 1205370 A 19600202
- [DA] US 2753991 A 19560710 - REINE SHERMAN CLAUDINE
- [A] FR 1074425 A 19541005 - UNILEVER NV
- [A] FR 632125 A 19280104
- [DA] GB 246657 A 19260204 - CHARLES STEWART FORBES
- [A] US 1947738 A 19340220 - REUTTER PHILIP A
- [A] FR 2312420 A1 19761224 - LAM PLAN SA [FR]
- [A] US 4602886 A 19860729 - SMIT ADRIANUS J [NL]

Cited by

US8281824B2; US8678051B2

Designated contracting state (EPC)

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

DOCDB simple family (publication)

WO 9208388 A1 19920529; AT E156977 T1 19970915; AT E213395 T1 20020315; CA 2096440 A1 19920516; CA 2096440 C 20020723; CA 2269124 A1 19920516; CA 2269124 C 20010619; DE 59108831 D1 19970925; DE 59109227 D1 20020328; DE 9117141 U1 19960418; DK 0557323 T3 19980406; DK 0702913 T3 20020603; EP 0557323 A1 19930901; EP 0557323 B1 19970820; EP 0702913 A2 19960327; EP 0702913 A3 19990310; EP 0702913 B1 20020220; ES 2104729 T3 19971016; ES 2172546 T3 20021001; GR 3025366 T3 19980227; JP 2000025853 A 20000125; JP 2003205979 A 20030722; JP 2005096868 A 20050414; JP 3364447 B2 20030108; JP 3583126 B2 20041027; JP 3641262 B2 20050420; JP H06502372 A 19940317

DOCDB simple family (application)

EP 9102098 W 19911106; AT 91919143 T 19911106; AT 95116099 T 19911106; CA 2096440 A 19911106; CA 2269124 A 19911106; DE 59108831 T 19911106; DE 59109227 T 19911106; DE 9117141 U 19910625; DK 91919143 T 19911106; DK 95116099 T 19911106; EP 91919143 A 19911106; EP 95116099 A 19911106; ES 91919143 T 19911106; ES 95116099 T 19911106; GR 970403008 T 19971112; JP 11817199 A 19990426; JP 2002312514 A 20021028; JP 2004299095 A 20041013; JP 51735591 A 19911106