

Title (en)

Pasty product applicator comprising a porous dispensing device

Title (de)

Ein poröses Spenderelement enthaltender Aufträger eines zähflüssigen Produktes

Title (fr)

Applicateur de produit de consistance visqueuse, comportant un organe de distribution poreux

Publication

EP 0732273 B1 19970502 (FR)

Application

EP 96400352 A 19960220

Priority

FR 9503147 A 19950317

Abstract (en)

[origin: EP0732273A1] The applicator (1) for a viscous product (P) comprises a product reservoir (2) and a rigid applicator (4) having pores (5) in all directions. The applicator porosity is between 1 μ m and 500 μ m. The product has a viscosity chosen so that its passage through the pores by gravity and/or by capillary action is prevented. The product is compressed by a device (M1,M2) which produces a sufficient pressure to push it through the pores when distributing a dose. The first device of compressions (M1) comprises a piston (6) associated with a piston rod (8), having a thread (12), fixed to an activator (10). The piston rod thread screws into a complementary thread (14) on the piston. The second device of compression (M2) comprises a propellant gas and a distribution valve connected to the applicator.

IPC 1-7

B65D 47/42; **B65D 83/14**; **B65D 83/76**

IPC 8 full level

A45D 40/04 (2006.01); **A45D 40/26** (2006.01); **B65D 83/00** (2006.01); **B65D 83/14** (2006.01)

CPC (source: EP US)

A45D 40/04 (2013.01 - EP US); **A45D 40/26** (2013.01 - EP US); **B65D 83/0011** (2013.01 - EP US); **B65D 83/285** (2013.01 - EP US); **A45D 2200/055** (2013.01 - EP US)

Cited by

US6039222A; EP3231319A4; CN107810143A; EP1169939A1; FR2810858A1; EP1169938A1; FR2810859A1; US6745781B2; WO0030950A1; US6688317B2; US6322271B1; WO2010083157A3; US6325565B1; US6406206B1; US6315482B1; US6231259B1; US8701591B2; WO0000059A3

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

EP 0732273 A1 19960918; **EP 0732273 B1 19970502**; AR 001236 A1 19970924; AT E152417 T1 19970515; BR 9600679 A 19971230; CA 2171594 A1 19960918; CA 2171594 C 19991005; DE 69600016 D1 19970605; DE 69600016 T2 19970807; ES 2104484 T3 19971001; FR 2731681 A1 19960920; FR 2731681 B1 19970430; US 6234698 B1 20010522

DOCDB simple family (application)

EP 96400352 A 19960220; AR 33574896 A 19960314; AT 96400352 T 19960220; BR 9600679 A 19960312; CA 2171594 A 19960312; DE 69600016 T 19960220; ES 96400352 T 19960220; FR 9503147 A 19950317; US 61830696 A 19960318