

Title (en)

METHOD OF AND APPARATUS FOR INTRODUCING INTO A CONTAINER A SUSPENSION OR SOLUTION OF A MATERIAL IN A PROPELLANT HELD UNDER PRESSURE

Publication

EP 0419261 B1 19930602 (EN)

Application

EP 90310306 A 19900920

Priority

GB 8921337 A 19890921

Abstract (en)

[origin: EP0419261A1] The application describes a method of introducing into a container a suspension or solution of a material in a propellant held under pressure, in particular a pharmaceutical material. The method comprises the steps of bringing a filling head (28) into communication with the container (C); introducing a quantity of such suspension or solution into the container through the filling head (28); introducing a quantity of high pressure propellant without any of the said material into the filling head (28), thereby to flush through any suspension or solution remaining in the filling head; and withdrawing the filling head from the container. An apparatus and a filling head (28) for carrying out the method are also described.

IPC 1-7

B65B 31/00

IPC 8 full level

B67C 3/06 (2006.01); **B65B 31/00** (2006.01); **B65B 31/04** (2006.01)

CPC (source: EP)

B65B 31/003 (2013.01)

Cited by

CN109095419A; EP2384301A4; DE4423916A1; EP0894722A1; US5375632A; EP0564421A3; US6786023B2; US6820658B2; WO9323313A1

Designated contracting state (EPC)

AT BE CH DE DK ES FR IT LI NL SE

DOCDB simple family (publication)

EP 0419261 A1 19910327; EP 0419261 B1 19930602; AT E90053 T1 19930615; AU 6301190 A 19910328; AU 634817 B2 19930304; CA 2025779 A1 19910322; CA 2025779 C 19990914; DE 69001793 D1 19930708; DE 69001793 T2 19930916; DK 0419261 T3 19931004; ES 2043290 T3 19931216; FI 904627 A0 19900920; FI 92171 B 19940630; FI 92171 C 19941010; GB 2236146 A 19910327; GB 2236146 B 19930512; GB 8921337 D0 19891108; GB 9020501 D0 19901031; HK 82397 A 19970627; IE 63939 B1 19950628; IE 903407 A1 19910410; JP 2809852 B2 19981015; JP H03212395 A 19910917; NZ 235401 A 19930225; ZA 907534 B 19910626

DOCDB simple family (application)

EP 90310306 A 19900920; AT 90310306 T 19900920; AU 6301190 A 19900920; CA 2025779 A 19900920; DE 69001793 T 19900920; DK 90310306 T 19900920; ES 90310306 T 19900920; FI 904627 A 19900920; GB 8921337 A 19890921; GB 9020501 A 19900920; HK 82397 A 19970619; IE 340790 A 19900920; JP 25167590 A 19900920; NZ 23540190 A 19900920; ZA 907534 A 19900920