

Title (en)

END CAP FOR DISPENSING AND SPRAYING LIQUID PHARMACEUTICAL PRODUCTS

Title (de)

ANSATZ ZUR ABGABE UND ZERSTÄUBUNG VON FLÜSSIGEN PHARMAZEUTISCHEN PRODUKTEN

Title (fr)

EMBOUT POUR LA DISTRIBUTION ET LA PULVERISATION DE PRODUITS PHARMACEUTIQUES LIQUIDES

Publication

EP 1181219 B1 20040915 (FR)

Application

EP 00927317 A 20000505

Priority

- FR 0001224 W 20000505
- FR 9905694 A 19990505

Abstract (en)

[origin: US6513684B1] An endpiece for dispensing liquid pharmaceuticals contained in a receptacle, the endpiece being of the type comprising a tubular element (1) provided at a free first end (1a) with a spray nozzle (3) and at its second end (1b) with a rotary coupling (11) providing a connection with the internal delivery duct (20) of a pushbutton (2) for fitting onto the top of a tapping member mounted on said receptacle, said rotary coupling (11) being constituted by a core having a cylindrical cavity (21) fitted to said pushbutton (2) in communication with the internal delivery duct (20) and in which the second end (1b) of the tubular element (1) is engaged in touching and rotary manner, which second end is provided with means for opening said duct (20), the endpiece being characterized in that said cylindrical cavity (21) contains an axial rod (22) secured to the pushbutton (2) for being engaged inside the second end (1b) of said tubular element (1) while leaving an intermediate space (21c) through which the pharmaceutical is transferred.

IPC 1-7

B65D 83/14; **B05B 11/00**

IPC 8 full level

B05B 9/04 (2006.01); **B05B 11/00** (2006.01); **B65D 83/14** (2006.01)

CPC (source: EP US)

B65D 83/303 (2013.01 - EP US); **B65D 83/56** (2013.01 - EP US); **B05B 11/0094** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

US 6513684 B1 20030204; AT E276167 T1 20041015; AU 4574600 A 20001121; BR 0011313 A 20020319; BR 0011313 B1 20111018; CA 2370386 A1 20001116; CN 1170746 C 20041013; CN 1407942 A 20030402; DE 60013813 D1 20041021; DE 60013813 T2 20051110; DK 1181219 T3 20050131; EP 1181219 A1 20020227; EP 1181219 B1 20040915; ES 2232449 T3 20050601; FR 2793221 A1 20001110; FR 2793221 B1 20010727; HK 1053453 A1 20031024; JP 2002544071 A 20021224; PT 1181219 E 20050228; WO 0068110 A1 20001116

DOCDB simple family (application)

US 92644001 A 20011105; AT 00927317 T 20000505; AU 4574600 A 20000505; BR 0011313 A 20000505; CA 2370386 A 20000505; CN 00808511 A 20000505; DE 60013813 T 20000505; DK 00927317 T 20000505; EP 00927317 A 20000505; ES 00927317 T 20000505; FR 0001224 W 20000505; FR 9905694 A 19990505; HK 03105814 A 20030814; JP 2000617100 A 20000505; PT 00927317 T 20000505