

Title (en)
DROPLET DISPENSING SYSTEM

Title (de)
TRÖPFCHENABGABESYSTEM

Title (fr)
SYSTEME DE DISTRIBUTION DE GOUTTELETTES

Publication
EP 1406765 A4 20041201 (EN)

Application
EP 02744538 A 20020620

Priority

- US 0219826 W 20020620
- US 29951501 P 20010620
- US 32504001 P 20010925
- US 2910801 A 20011221
- US 2885201 A 20011221
- US 2748401 A 20011221
- US 2751601 A 20011221
- US 2717101 A 20011221
- US 2792201 A 20011221

Abstract (en)
[origin: WO03004275A1] A droplet dispensing pin (13) includes a droplet ejection nozzle (25), a filling channel (20), a fluid chamber (21) and an actuator (24) for ejecting droplets on demand. The pin (13) is mounted in a holder including a control circuit to form a dispensing system.

IPC 1-7
B41J 2/14; **B01L 3/02**; **G01N 1/38**

IPC 8 full level
G01N 1/00 (2006.01); **B01L 3/02** (2006.01); **C12Q 1/00** (2006.01); **G01N 35/10** (2006.01)

CPC (source: EP)
B01L 3/0244 (2013.01); **B01L 3/0255** (2013.01); **C12Q 1/00** (2013.01); **B01L 2400/0439** (2013.01)

Citation (search report)

- [X] US 6242266 B1 20010605 - SCHLEIFER ARTHUR [US], et al
- [X] US 6232129 B1 20010515 - WIKTOR PETER [US]
- [X] US 6183067 B1 20010206 - MATTA FARID [US]
- [A] US 5658802 A 19970819 - HAYES DONALD J [US], et al
- [A] US 4877745 A 19891031 - HAYES DONALD J [US], et al
- See references of WO 03004275A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
WO 03004275 A1 20030116; **WO 03004275 A9 20040129**; CA 2451314 A1 20030116; EP 1406765 A1 20040414; EP 1406765 A4 20041201; JP 2004534229 A 20041111; JP 2008249720 A 20081016; JP 4166690 B2 20081015

DOCDB simple family (application)
US 0219826 W 20020620; CA 2451314 A 20020620; EP 02744538 A 20020620; JP 2003510266 A 20020620; JP 2008134614 A 20080522