

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)  
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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

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**US 0219826 W 20020620**; CA 2451314 A 20020620; EP 02744538 A 20020620; JP 2003510266 A 20020620; JP 2008134614 A 20080522