Title (en)

Apparatus and method for dispensing a use solution

Title (de)

Verfahren und Vorrichtung zur Ausgabe einer Flüssigkeit

Title (fr)

Procédé et appareil pour la distribution d'une solution

Publication

EP 1980315 A2 20081015 (EN)

Application

EP 08013057 A 20051014

Priority

- EP 05808958 A 20051014
- US 61978304 P 20041018
- US 61972704 P 20041018
- US 15291705 A 20050615
- US 15294005 A 20050615

Abstract (en)

A dispenser (10) uses first and second flow controls (70, 73). The flow controls maintain first and second flow ranges independent of diluent pressure within a pressure range, wherein the use solution's concentration is maintained over the pressure range. A third flow control (75) may also be utilized in a third diluent passageway for maintaining a third flow range independent of the diluent pressure within the pressure range. A bypass valve assembly (41) is operatively connected to the third incoming diluent passageway. The bypass valve has a temperature control valve. The temperature control valve having a bypass passageway, wherein additional diluent is added to the use solution, thereby controlling the use solution's concentration.

IPC 8 full level

B01F 1/00 (2006.01); A47L 15/44 (2006.01)

CPC (source: EP)

B01F 21/221 (2022.01); **B01F 21/4021** (2022.01); **B01F 35/2115** (2022.01); **B01F 35/2211** (2022.01); **B01F 35/718051** (2022.01)

Citation (applicant)

US 4826661 A 19890502 - COPELAND JAMES L [US], et al

Designated contracting state (EPC)

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WO 2006044678 A2 20060427; **WO 2006044678 A3 20060810**; AT E406951 T1 20080915; AT E503566 T1 20110415; AU 2005295632 A1 20060427; AU 2005295632 B2 20091217; BR PI0515384 A 20080722; BR PI0515384 B1 20170620; CA 2575766 A1 20060427; CA 2575766 C 20121204; CN 101018600 A 20070815; CN 101018600 B 20101110; DE 602005009571 D1 20081016; DE 602005027271 D1 20110512; EP 1814649 A2 20070808; EP 1814649 B1 20080903; EP 1980315 A2 20081015; EP 1980315 A3 20081029; EP 1980315 B1 20110330; EP 2216089 A1 20100811; EP 2216089 B1 20120926; ES 2313436 T3 20090301; JP 2008516755 A 20080522; JP 5426096 B2 20140226; MX 2007004242 A 20070612; PL 1814649 T3 20090227; PL 1980315 T3 20110930; PL 2216089 T3 20130329

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