

Title (en)

Flow rate control with a positive displacement liquid pump

Title (de)

Durchflussregelung mittels einer Flüssigkeitsverdrängerpumpe

Title (fr)

Régulation du débit avec une pompe volumétrique

Publication

EP 1106826 A2 20010613 (EN)

Application

EP 00126636 A 20001204

Priority

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- JP 2000217926 A 20000718

Abstract (en)

A positive displacement liquid-delivery apparatus comprising a positive displacement pump 10 and a differential pressure control unit 42. The positive displacement pump 10 includes a liquid-delivery chamber 28 having a housing 22 with one part formed of a flexible diaphragm 24; and a diaphragm driver 36 linked to the diaphragm 24 for deforming the same to discharge fluid from the liquid-delivery chamber 28. The differential pressure control unit 42 uniformly controls the differential pressure inside and outside the diaphragm 24 during the pumping process. <IMAGE>

IPC 1-7

F04B 13/00; **F04B 43/02**

CPC (source: EP KR US)

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Cited by

RU2636948C1; EP2396554A4; WO2005077489A1; WO2010091454A1; US9958627B2; US10520691B2; US10527807B2; US10955630B2; US11231556B2; US11592632B2

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