

Title (en)

Apparatus to concentrate a fluid and a multiple chamber pump

Title (de)

Vorrichtung zum Aufkonzentrieren einer Flüssigkeit und Differentialkolbenpumpe

Title (fr)

Dispositif pour concentrer un fluide et pompe à piston différentiel

Publication

**EP 1752662 B1 20080220 (DE)**

Application

**EP 05017334 A 20050809**

Priority

EP 05017334 A 20050809

Abstract (en)

[origin: EP1752662A1] The device has a drive shaft (12) and a differential piston pump. The differential piston pump is driven by the drive shaft and a valve control unit (18) is arranged for operating an inlet and outlet valve arrangement. A tappet is arranged on the drive shaft for a differential piston (K) and the valve control unit. The differential piston and the valve control unit are coupled with a pressure coupling directly at the tappet. An independent claim is also included for a differential piston pump for a fluid.

IPC 8 full level

**F04B 5/00** (2006.01); **F04B 7/00** (2006.01); **F04B 9/10** (2006.01)

CPC (source: EP US)

**F04B 5/00** (2013.01 - EP US); **F04B 7/00** (2013.01 - EP US); **F04B 9/042** (2013.01 - EP US); **F04B 9/107** (2013.01 - EP US)

Cited by

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**EP 1752662 A1 20070214**; **EP 1752662 B1 20080220**; AT E386884 T1 20080315; AU 2006278957 A1 20070215; CN 101238288 A 20080806; DE 502005002928 D1 20080403; EA 200800551 A1 20080630; ES 2302105 T3 20080701; JP 2009504992 A 20090205; PT 1752662 E 20080528; US 2009246045 A1 20091001; WO 2007016988 A1 20070215; ZA 200802182 B 20090930

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