

Title (en)  
Pump for low flow rates

Title (de)  
Pumpe für niedrige Flussraten

Title (fr)  
Pompe à faible débit

Publication  
**EP 1167757 A3 20030709 (DE)**

Application  
**EP 01114608 A 20010619**

Priority  
DE 10029453 A 20000621

Abstract (en)  
[origin: EP1167757A2] The pump has a channel (2) which at least partially is filled with a transporting fluid, a membrane (4) which is wetted by the transporting fluid and located at the opening of the channel, and a chamber on the other side of the membrane with constant transporting fluid vapor pressure. The chamber contains a sorbent (6) to absorb the vaporized transporting fluid. The chamber and the transporting fluid are separated from each other by the membrane. Independent claims are included for a micro-dialysis system incorporating the proposed pump, for an ultra-filtration unit incorporating the proposed pump, and for a system for pumping a working fluid with a low flow rate.

IPC 1-7  
**F04B 17/00**; **F04B 43/06**; **B01D 67/00**; **A61M 1/14**; **B01D 61/22**

IPC 8 full level  
**A61M 1/14** (2006.01); **B01D 61/22** (2006.01); **B01D 67/00** (2006.01); **F04B 17/00** (2006.01); **F04B 43/06** (2006.01)

CPC (source: EP US)  
**F04B 17/00** (2013.01 - EP US); **F04B 43/06** (2013.01 - EP US); **Y10T 436/2575** (2015.01 - EP US)

Citation (search report)

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