

Title (en)  
ELECTRO-OSMOTIC PUMP

Title (de)  
ELEKTROOSMOTISCHE PUMPE

Title (fr)  
POMPE ÉLECTRO-OSMOTIQUE

Publication  
**EP 2242926 B1 20110907 (EN)**

Application  
**EP 09708825 A 20090209**

Priority  
• GB 2009000355 W 20090209  
• GB 0802450 A 20080208

Abstract (en)  
[origin: US2011052431A1] A pump for inducing liquid movement by means of polarisation electro-osmosis, comprising a passageway forming a flow path for fluid transport, at least one polarisable means located within said passageway so as to form at least one pore through said passageway, the at least one polarisable means being shaped such that at least a section of the pore walls are curved or inclined with respect to the longitudinal axis of the passageway, the pump further comprising a non-conductive porous membrane positioned across the flow path and in close proximity to the at least one polarisable means, the membrane comprising pores extending in a direction at least partially parallel to the longitudinal axis of the passageway and having a pore size smaller than the at least one pore formed by the polarisable means.

IPC 8 full level  
**F04B 19/00** (2006.01); **B01D 61/56** (2006.01); **F04B 43/04** (2006.01)

CPC (source: EP US)  
**B01L 3/50273** (2013.01 - EP US); **F04B 19/006** (2013.01 - EP US); **F04B 43/043** (2013.01 - EP US); **B01L 3/502707** (2013.01 - EP US); **B01L 2300/0816** (2013.01 - EP US); **B01L 2400/0418** (2013.01 - EP US)

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2009098486 A1 20090813**; AT E523692 T1 20110915; EP 2242926 A1 20101027; EP 2242926 B1 20110907; GB 0802450 D0 20080319; JP 2011514794 A 20110506; JP 5366978 B2 20131211; US 2011052431 A1 20110303

DOCDB simple family (application)  
**GB 2009000355 W 20090209**; AT 09708825 T 20090209; EP 09708825 A 20090209; GB 0802450 A 20080208; JP 2010545554 A 20090209; US 86676209 A 20090209