

Title (en)  
MICROFLUIDIC DEVICES FOR FLUID MANIPULATION AND ANALYSIS

Title (de)  
MIKROFLUIDISCHE VORRICHTUNG ZUR ANALYSE UND HANDHABUNG VON FLÜSSIGKEITEN

Title (fr)  
DISPOSITIFS MICROFLUIDIQUES POUR LA MANIPULATION ET L'ANALYSE DE FLUIDES

Publication  
**EP 1587623 A2 20051026 (EN)**

Application  
**EP 04702227 A 20040114**

Priority  
• US 2004001063 W 20040114  
• US 43982503 P 20030114  
• US 44187303 P 20030121

Abstract (en)  
[origin: WO2004065930A2] The present invention relates to microfluidic devices and methods for manipulating and analyzing fluid samples. The disclosed microfluidic devices utilize a plurality of microfluidic channels, inlets, valves, filter, pumps, liquid barriers and other elements arranged in various configurations to manipulate the flow of a fluid sample in order to prepare such sample for analysis.

IPC 1-7  
**B01L 3/00**; **F04B 43/04**

IPC 8 full level  
**B01F 5/04** (2006.01); **B01F 5/06** (2006.01); **B01F 13/00** (2006.01); **B01L 3/00** (2006.01); **F04B 43/04** (2006.01)

CPC (source: EP KR US)  
**B01F 25/3141** (2022.01 - EP KR); **B01F 25/433** (2022.01 - EP); **B01F 25/4331** (2022.01 - EP KR); **B01F 33/30** (2022.01 - EP KR); **B01L 3/502723** (2013.01 - KR); **B01L 3/50273** (2013.01 - EP KR US); **B01L 3/502738** (2013.01 - EP); **B01L 3/502753** (2013.01 - EP); **F04B 43/043** (2013.01 - EP KR US); **B01L 3/502723** (2013.01 - EP); **B01L 2200/0621** (2013.01 - EP); **B01L 2200/10** (2013.01 - EP); **B01L 2300/0681** (2013.01 - EP); **B01L 2300/0861** (2013.01 - EP); **B01L 2300/0867** (2013.01 - EP); **B01L 2300/1805** (2013.01 - EP); **B01L 2400/0481** (2013.01 - EP); **B01L 2400/0487** (2013.01 - EP); **B01L 2400/049** (2013.01 - EP); **B01L 2400/0605** (2013.01 - EP); **B01L 2400/0633** (2013.01 - EP)

Citation (search report)  
See references of WO 2004065930A2

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2004065930 A2 20040805**; **WO 2004065930 A3 20041202**; AU 2004205887 A1 20040805; CA 2513424 A1 20040805; EP 1587623 A2 20051026; JP 2006517029 A 20060713; KR 20050104348 A 20051102

DOCDB simple family (application)  
**US 2004001063 W 20040114**; AU 2004205887 A 20040114; CA 2513424 A 20040114; EP 04702227 A 20040114; JP 2006500972 A 20040114; KR 20057013087 A 20050714