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(54) Title: MICROFLUIDIC SEPARATORS FOR MULTIPHASE FLUID-FLOW BASED ON MEMBRANES

(57) Abstract: One aspect of the invention relates to fluid-phase separators and devices containing them. Another aspect of the invention relates to the use of said fluid-phase separators and devices containing them for separating individual phases from gas-liquid and liquid-liquid two-phase mixtures for a range of flow regimes. The present invention also relates to methods of making said fluid-phase separators and devices containing them.

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B FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) USPC - 95/43, 95/46, 95/45 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Google fluid separators and silicon channels and capillary pressure Google fluid separators and ceramic channels and capillary pressure Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) West (USPT, USOC, EPAB, JPAB), Google Internet search search terms fluid separators silicon channels capillary pressure ceramic channels		
C DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
A	"Fluid modelling of microfluidic separator channels" by R J Townsend, et al in Sensors and Actuators B 111-112 (2005) 455-462	1-61
A P	"A Low Temperature Co-Fired Ceramic Mesofluidic Separator " by J Zhu, et al in Journal of Physics, Conference Series 34, (May 9-12, 2006), 734-39	1-61
A	US 6,309,550 B1 (Iversen, et al) 30 October 2001 (30 10 2001)	1-61
D Further documents are listed in the continuation of Box C		
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