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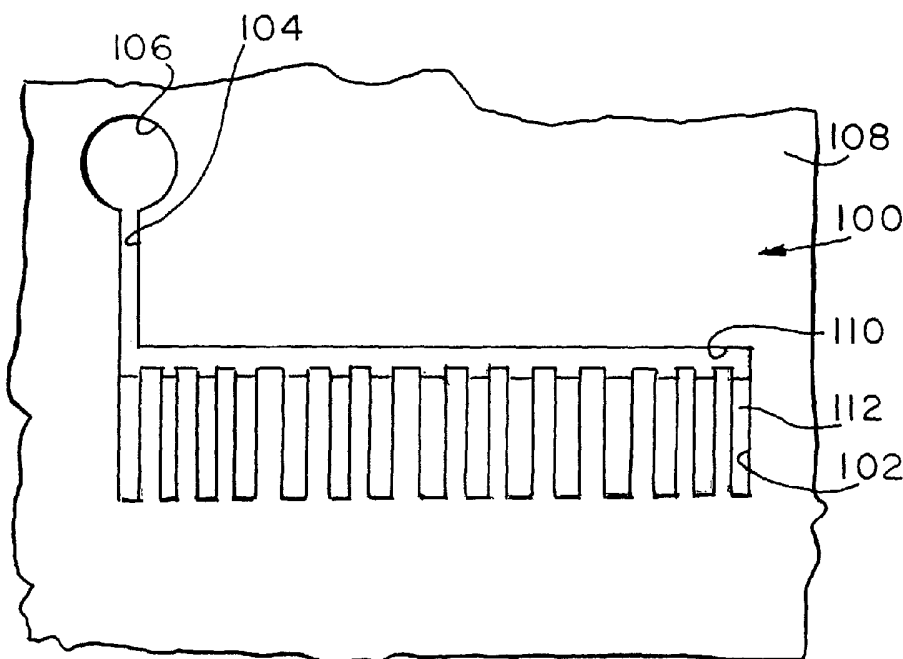
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- (71) Applicant: **APPLERA CORPORATION** [US/US]; 850
Lincoln Centre Drive, Foster City, CA 94404 (US).
- (72) Inventors: **DESMOND, Sean, M.**; 1939 Birch Avenue,
San Carlos, CA 94070 (US). **SHIGEURA, John**; 1021 Los
Trancos Road, Portola Valley, CA 94028 (US).
- (74) Agent: **BOWERSOX, Leonard, D.**; Kilyk & Bowersox,
P.L.L.C., 3603 Chain Bridge Road, Suite E, Fairfax, VA
22030 (US).
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[Continued on next page]

(54) Title: MICRO-CHANNEL DESIGN FEATURES THAT FACILITATE CENTRIPETAL FLUID TRANSFER



(57) Abstract: Microfluidic device (100) is formed in substrate (108) and can include input port (106) in fluid communication with input channel (104) connected to feed channel (110). The microfluidic devices have a plurality of specialized processing features that facilitate centripetal fluid transfer is also provided.

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— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

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A. CLASSIFICATION OF SUBJECT MATTER
 IPC(7) : B01L 3/00
 US CL : 422/102
 According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED
 Minimum documentation searched (classification system followed by classification symbols)
 U.S. : 422/102,68.1, 99,100; 436/174,179,180

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
 none

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
 none

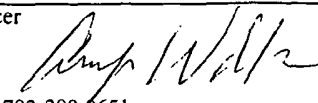
C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/0037499 A1 (QUAKE et al) 28 March 2002, see claims 1,31 and 60-92	1-36
X,P	US 6,485,690 B1 (PFOST et al) 26 November 2002, see claims 1-53	1-36

Further documents are listed in the continuation of Box C. See patent family annex.

<p>* Special categories of cited documents:</p> <p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier application or patent published on or after the international filing date</p> <p>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p>	<p>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</p> <p>"&" document member of the same patent family</p>
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Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230	Authorized officer Jill Warden  Telephone No. 703-308-0651
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