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Office

**SUPPLEMENTARY
PARTIAL EUROPEAN SEARCH REPORT**

Application Number

under Rule 46, paragraph 1 of the European Patent Convention EP 01 96 8418

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	WO 98/32616 A (CALIFORNIA INSTITUTE OF TECHNOLOGY) 30 July 1998 (1998-07-30)	1-4,6, 8-11,24, 26,31, 34,35	F04B35/02 F16K31/122 F16K7/04 A61B5/00
Y	* page 2, line 10 * * page 3, line 8 * * page 4, line 23 - line 32 * * page 5, line 28 - page 6, line 19 * * page 8, line 27 - page 10, line 17 * * figures 1,7,8 *	5,7,12, 16-22, 25,30	A61B5/103 B81B3/00 F15C5/00 F04B19/24 F04B43/04
Y	WO 99/24744 A (CALIFORNIA INSTITUTE OF TECHNOLOGY) 20 May 1999 (1999-05-20)	1,5,12, 16-23, 27-29	
A	* page 7, line 1 - page 8, line 12 * * figures 6,7 * ----- -/--	10	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			A61B B81B F15C F04B B01J
LACK OF UNITY OF INVENTION			
The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:			
see sheet B			
The present partial European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims.			
Place of search	Date of completion of the search	Examiner	
The Hague	30 March 2005	Visser, R	
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ----- & : member of the same patent family, corresponding document	
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			

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EPO FORM 1503 03.82 (P04/C23)



DOCUMENTS CONSIDERED TO BE RELEVANT		CLASSIFICATION OF THE APPLICATION (Int.Cl.7)	
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
Y	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 11, 3 January 2001 (2001-01-03) & JP 2000 220575 A (AISIN SEIKI CO LTD), 8 August 2000 (2000-08-08)	7	
A	* abstract * * paragraph '0019!; figures 1,7 * & US 6 273 687 B1 14 August 2001 (2001-08-14) * column 4, line 15 - line 24 *	12	
Y	US 6 009 343 A (SHAIN ET AL) 28 December 1999 (1999-12-28) * column 1, line 55 * * column 3, line 25 - line 48 * * claim 9 *	1,23, 27-29	TECHNICAL FIELDS SEARCHED (Int.Cl.7)
Y	WO 98/07069 A (THE REGENTS OF THE UNIVERSITY OF MICHIGAN; MASTRANGELO, CARLOS, H; MAN) 19 February 1998 (1998-02-19)	25,30	
A	* page 10, line 25 - page 11, line 5 * * page 15, line 25 - line 30 * * figures 1,5 *	29	
A	SU 259 052 A (ADONIN ET AL) 12 December 1969 (1969-12-12) * column 2, line 20 - line 26; figure 2 *	29	
A	US 5 325 880 A (JOHNSON ET AL) 5 July 1994 (1994-07-05) * column 2, line 62 - line 68 * * column 6, line 34 * * column 6, line 53 - column 7, line 19 * * column 7, line 50 * * column 8, line 8 - line 21 *	11,15, 16,31, 34,35	



The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-31, 34, 35

Heater material

2. claims: 32, 33

Teardrop shaped posts

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 01 96 8418

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

30-03-2005

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专利名称(译)	微流体系统		
公开(公告)号	EP1317625A4	公开(公告)日	2005-08-10
申请号	EP2001968418	申请日	2001-08-31
[标]申请(专利权)人(译)	先进传感技术有限公司		
申请(专利权)人(译)	先进的传感器技术		
当前申请(专利权)人(译)	先进的传感器技术		
[标]发明人	HOWER ROBERT W CANTOR HAL C MONDRO JASON R		
发明人	HOWER, ROBERT, W. CANTOR, HAL, C. MONDRO, JASON, R.		
IPC分类号	A61B5/00 A61B5/103 B01L3/00 B81B1/00 B81B3/00 F04B19/00 F04B19/24 F04B35/02 F04B43/04 F15B15/20 F15C5/00 F16K99/00 G01N27/416 F16K31/122 F16K7/04		
CPC分类号	F04B19/006 A61B5/0002 A61B5/145 A61B5/14514 A61B5/14532 A61B5/14546 A61B5/1491 A61B2560 /0412 B01L3/50273 B01L3/502738 B01L2200/10 B01L2300/0636 B01L2300/0645 B01L2300/0816 B01L2300/087 B01L2400/0442 B01L2400/0481 B01L2400/0655 B01L2400/086 B81B1/00 B81B3/0024 B81B2201/036 B81B2201/054 F04B43/046 F15B2015/208 F16K99/0001 F16K99/0015 F16K99/0036 F16K99/0061 F16K2099/0069 F16K2099/0074 F16K2099/0076 F16K2099/008 F16K2099/0084		
代理机构(译)	汤布林, ADRIAN GEORGE		
优先权	60/229382 2000-08-31 US		
其他公开文献	EP1317625A1		
外部链接	Espacenet		

摘要(译)

根据本发明,提供了一种微流体传感器系统(6),其包括用于承载流体的微导管(56),其具有柔性壁部分(18),至少一个具有闭合腔的微流体致动器,限定腔的壁(11)的柔性机构和微导管的柔性壁部分(18),用于在施加压力时偏转,以及设置在腔中的扩展机构(14),用于选择性地扩展腔,从而选择性地弯曲所述膨胀机构,并且传感器机构与微导管流体连通,用于检测分子的存在或不存在。本发明还提供一种用于移动微流体量的微流体系统,包括微导管和至少一个与微导管流体连通的微流体致动器。