



DOCUMENTS CONSIDERED TO BE RELEVANT		Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
Category	Citation of document with indication, where appropriate, of relevant passages		
X	ANDREWS R ET AL: "Multimodality tissue identification for neurosurgery: the NASA smart probe project" APPLIED IMAGERY PATTERN RECOGNITION WORKSHOP, 2000. PROCEEDINGS. 29TH 16-18 OCT. 2000, PISCATAWAY, NJ, USA, IEEE, 16 October 2000 (2000-10-16), pages 153-157, XP010559095 ISBN: 0-7695-0978-9	1,2	INV. A61B5/05 A61B17/00 A61B19/00 ADD. A61B5/00
Y	* the whole document *	3-7, 9-20,23, 25-31, 34,35, 37,38	
D, Y	----- WO 98/33451 A (NASA [US]; MAH ROBERT W [US]; RUSSELL J ANDREWS [US]) 6 August 1998 (1998-08-06) * the whole document *	3-7, 9-14, 18-20, 37,38	
Y	----- WO 99/49779 A (UNIV CALIFORNIA [US]) 7 October 1999 (1999-10-07) * the whole document *	15-17, 23, 25-30, 34,35	TECHNICAL FIELDS SEARCHED (IPC)
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The supplementary search report has been based on the last set of claims valid and available at the start of the search.			
2	Place of search	Date of completion of the search	Examiner
	Munich	28 September 2007	Anscombe, Marcel
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			

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

EP 02 76 1558

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
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28-09-2007

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专利名称(译)	用于组织识别的多传感器探头		
公开(公告)号	EP1432350A4	公开(公告)日	2007-11-07
申请号	EP2002761558	申请日	2002-09-04
[标]申请(专利权)人(译)	BIOLUMINATE		
申请(专利权)人(译)	BIOLUMINATE INC.		
当前申请(专利权)人(译)	BIOLUMINATE INC.		
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IPC分类号	A61B5/05 G01N21/17 A61B5/00 A61B5/01 A61B5/145 A61B5/1459 A61B10/00 A61B17/00 A61B19/00 G01N21/27		
CPC分类号	A61B5/6848 A61B5/0066 A61B5/0071 A61B5/0075 A61B5/0084 A61B5/061 A61B5/145 A61B5/6885 A61B2017/00796 A61B2090/062 A61B2562/0242		
优先权	09/947171 2001-09-04 US		
其他公开文献	EP1432350A2		
外部链接	Espacenet		

摘要(译)

用于连续实时组织识别的多传感器探头。所述多传感器探针包括组织穿透针，用于表征组织的多个传感器以及用于测量针进入被诊断的组织的深度的位置传感器。传感器包括但不限于光学散射和吸收光谱传感器，光学相干域反射计传感器，电阻抗传感器，温度传感器，pO2传感器，化学传感器和其他可用于识别组织的传感器。传感器可以采取延伸穿过所述针的多根光纤的形式。可以在针的远侧部分周围布置可伸缩护套，以在不使用时保护针。当将探针插入组织中时，护套会缩回，并且可以测量护套相对于针的位置，以确定针的深度。还提供了用于组织识别的系统和方法。

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Citation of each document considered, where appropriate, of relevant passages			
ANDREWS R ET AL: "Multimodality tissue identification for neurosurgery: the NASA applied imagery pattern recognition workshop, 2000. PROCEEDINGS 29TH 16-18 October 2000 (2000-10-16). pages 153-157. XP016559095 ISBN: 0-7823-0978-9 x the whole document *	1, 2	INV. A61B5/05 A61B17/00 A61B19/00	ADD. A61B5/00
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US 5 437 263 A (PANALETTA JOSEPH V [US] ET AL) 1 August 1995 (1995-08-01) x column 13, lines 50-59 -----	15-17, 21, 25-30, 34, 35	15-17, 21, 25-30, 34, 35	A61B
	31		
	24		
The supplementary search report has been based on the last set of claims valid and available at the start of the search.			
Patent of search	Date of completion of the search	Examiner	
Patent of search	28 September 2007	Anscombe, Marcel	
CLASSIFICATION OF CITED DOCUMENTS			
x: directly relevant if taken alone y: indirectly relevant if compared with another document of the same family z: distinguished by a broad search s: secondary document			
T: theory or principle underlying an invention E: embodiment of an invention, but not publication, or D: document cited in the application L: document cited for other reasons S: member of the same patent family, corresponding document			