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(54) **System and method for directing and monitoring radiation therapy**

(57) A system for monitoring, directing and controlling the dose of radiation in a medical procedure for irradiating a specific region of a patient's body. In its generic form, the system includes at least one sensor being implantable within, or in proximity to, the specific region of the patient's body, the at least one sensor being

for sensing at least one parameter associated with the radiation. The system further includes a relaying device which is in communication with the sensor(s). The relaying device serves for relaying the information outside of the patient's body.



European Patent Office

EUROPEAN SEARCH REPORT

Application Number  
EP 00 10 9527

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	US 5 833 603 A (KNAPP TERRY R ET AL) 10 November 1998 (1998-11-10)	1-27,30, 31, 34-40, 45,56	A61N5/10 A61N5/00
Y	* abstract *  * column 3, line 10 - column 4, line 44 * * column 6, line 8 - column 7, line 33 * * column 9, line 1 - column 10, line 2 * ---	28,29, 32,33, 41-44	
X	EP 0 706 783 A (CORDIS EUROP) 17 April 1996 (1996-04-17)  * the whole document * ---	1-10, 13-25, 30,45-56	
Y	US 4 397 314 A (VAGUINE VICTOR A) 9 August 1983 (1983-08-09)  * abstract * * column 2, line 16 - line 20 * * column 2, line 39 - line 43 * * column 3, line 1 - line 19 * * column 5, line 42 - line 57 * ---	28,29, 32,33, 41-44	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			A61N A61B
A	US 5 704 352 A (TREMBLAY GERALD F ET AL) 6 January 1998 (1998-01-06) ---		
A	US 4 976 266 A (HUGHES ROBERT C ET AL) 11 December 1990 (1990-12-11) ---		
A	US 5 704 890 A (REEDER PAUL L ET AL) 6 January 1998 (1998-01-06) -----		
The present search report has been drawn up for all claims			
Place of search <b>MUNICH</b>		Date of completion of the search <b>8 July 2003</b>	Examiner <b>Rodríguez Cossío, J</b>
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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ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.

EP 00 10 9527

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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08-07-2003

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专利名称(译)	用于指导和监测放射疗法的系统和方法		
公开(公告)号	<a href="#">EP1050321A3</a>	公开(公告)日	2003-08-27
申请号	EP2000109527	申请日	2000-05-04
[标]申请(专利权)人(译)	REMON医疗TECH		
申请(专利权)人(译)	REMON MEDICAL TECHNOLOGIES LTD.		
当前申请(专利权)人(译)	REMON MEDICAL TECHNOLOGIES LTD.		
[标]发明人	PENNER AVI PORAT YARIV DORON EYAL		
发明人	PENNER, AVI PORAT, YARIV DORON, EYAL		
IPC分类号	G01T1/16 A61B5/00 A61B5/053 A61B17/22 A61B18/00 A61B19/00 A61F7/00 A61N5/02 A61N5/06 A61N5/10 G01F1/36 G01F1/72 G01T1/161 G01T1/17 H01L41/08 H01L41/09 H01L41/113 H03H9/17 H04R17/00 A61N5/00		
CPC分类号	H01L41/1132 A61B5/0031 A61B5/413 A61B2562/028 A61N1/37288 A61N5/1048 A61N5/1071 A61N2005/1072 H04R17/00		
优先权	09/305442 1999-05-06 US		
其他公开文献	EP1050321A2		
外部链接	<a href="#">Espacenet</a>		

摘要(译)

一种用于监测，引导和控制医疗过程中的辐射剂量的系统，用于照射患者身体的特定区域。在其通用形式中，该系统包括至少一个传感器，该传感器可植入在患者身体的特定区域内或附近，该至少一个传感器用于感测与辐射相关联的至少一个参数。该系统还包括与传感器通信的中继设备。中继设备用于将信息转发到患者身体外部。

DOCUMENTS CONSIDERED TO BE RELEVANT		Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 7)
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X	US 5 833 503 A (KNAFF TERRY R ET AL) 10 November 1998 (1998-11-10)	1-27, 30, 31, 40, 45-50, 58, 29, 32, 33, 41-44	A61N5/10 A61N5/00
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Y	* the whole document * US 4 397 314 A (VAGUINE VICTOR A) 9 August 1983 (1983-08-09)	28-29, 32, 33, 41-44	TECHNICAL FIELDS SEARCHED (Int. Cl. 7) A61B A61B
A	US 5 704 352 A (TREMBLAY GERALD F ET AL) 5 January 1998 (1998-01-05)		
A	US 4 976 266 A (HUGHES ROBERT C ET AL) 11 December 1990 (1990-12-11)		
A	US 5 704 890 A (REEDER PAUL L ET AL) 6 January 1998 (1998-01-06)		

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Searcher
MUNICH	8 July 2003	Rodriguez Cosso, J

CATEGORY OF CITED DOCUMENTS	1: theory or principle underlying the invention
X: particularly relevant if taken alone	2: documents which have been published on, or
Y: documents relevant to applicant's invention	3: other the filing date of the application
A: technological background	4: documents cited by other examinees
P: prior art	5: member of the same patent family, corresponding document