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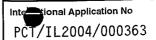
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD AND DEVICE FOR RADIOTHERAPY

(57) Abstract: A radiotherapy method, comprising positioning a predetermined amount of a radionuclide selected from the group consisting of Radium-223, Radium-224, Radon-219 and Radon-220, in proximity to and/or within a tumor of a subject, for a predetermined time period. The predetermined amount and the predetermined time period are selected sufficient for the radionuclide to administering a predetermined therapeutic dose of decay chain nuclei and alpha particles into the tumor.



a. classification of subject matter IPC 7 A61K51/00 A61M36/00 A61P35/00

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) IPC 7 $\,$ A61K $\,$ A61M $\,$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

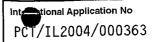
Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, EMBASE, BIOSIS

C. DOCUME	Relevant to claim No.	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	
Χ	EP 1 191 121 A (VARIAN MED SYST INC)	1-46,
^	27 March 2002 (2002-03-27)	73-93
X	paragraphs '0014! - '0016!, '0021!, '0022!	47–72
χ	US 5 713 828 A (CONIGLIONE ROY)	1-46,
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	11 December 1990 (1990-12-11) column 3, lines 48-59	/3-93
	,	
	,	

Further documents are listed in the continuation of box C.	Y Patent family members are listed in annex.
 Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "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) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed 	 "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 "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 "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. "&" document member of the same patent family
Date of the actual completion of the international search 6 October 2004	Date of mailing of the international search report [] 6. 11. 2004
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016	Authorized officer Cattell, James

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	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	Relevant to claim No.
Category °	Citation of document, with indication, where appropriate, of the relevant passages	neievani to ciaim no.
X	THOMSON ET AL: "Stereostatic multiple arc radiotherapy" THE RITISH J. OF RADIOLOGY, vol. 63, no. 754, 1990, pages 745-751, XP009033829 figure 5	1-46, 73-93
Х	US 6 030 333 A (SIOSHANSI PIRAN ET AL) 29 February 2000 (2000-02-29) column 7, lines 3-6	47–72
X	WO 00/71204 A (RADIOMED CORP) 30 November 2000 (2000-11-30) page 13, lines 9-29	47–72
Х	US 6 224 536 B1 (PIKE KELLY) 1 May 2001 (2001-05-01) column 4, lines 38-51	47-72
Х	US 2002/077520 A1 (HAMPIKIAN JANET M ET AL) 20 June 2002 (2002-06-20) paragraph '0043!	94-105
X	US 6 077 413 A (HAFELI URS ET AL) 20 June 2000 (2000-06-20) column 8, lines 41-53	94-105

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)					
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:					
1. X Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely: Although claims 1-15, 73-93 are directed to a method of treatment					
of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.					
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:					
Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).					
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)					
This International Searching Authority found multiple inventions in this international application, as follows:					
see additional sheet					
1. X As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.					
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.					
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:					
Congoguently, this International Search Poport is					
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:					
Remark on Protest The additional search fees were accompanied by the applicant's protest.					
χ No protest accompanied the payment of additional search fees.					

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210									
Continuation of Box II.1									
Although claims 1-15, 73-93 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.									

Information on patent family members

Interplication No PCT/IL2004/000363

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