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(54) Title: METHODS AND REAGENTS TO ACQUIRE MRI SIGNALS AND IMAGES

(57) Abstract: Methods for obtaining BOLD MRI images with allosteric effector compounds are disclosed. Methods for the determination of tumor oxygenation and for an optimal time for initiating radiation therapy are also disclosed.

INTERNATIONAL SEARCH REPORT

International application No.

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61B 5/055; A01N 37/12
 US CL : 424/9.3; 514/563; 436/173

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. : 424/9.3; 514/563; 436/173; 600/420

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 practicable, search terms used)
 Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 5,661,182 A (ABRAHAM et al) 26 June 1997 (26.06.1997), columns 1-4.	7-12 ----- 1-30
Y	US 5,765,562 A (LEKUNBACH et al) 16 June 1998 (16.06.1998), column 4, lines 9-41.	1-30
Y	US 5,650,156 A (GRINSTAFF et al) 22 July 1997 (22.07.1997), column 7, lines 51-57 and columns 23-24.	1-30

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:	
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"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

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Continuation of B. FIELDS SEARCHED Item 3:

APS, CAS

search terms: MRI, BOLD, allosteric, oxygen-level dependent, radiosensize, radiotherapy, fMRI, NMR, imaging, RSR