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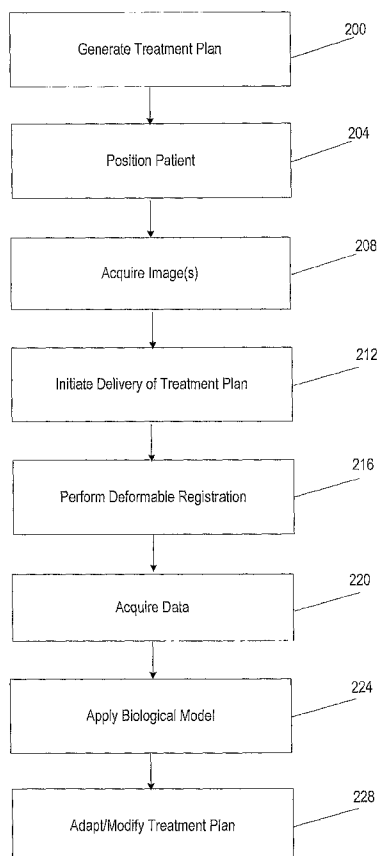
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(54) Title: METHOD AND SYSTEM FOR ADAPTING A RADIATION THERAPY TREATMENT PLAN BASED ON A BIOLOGICAL MODEL



(57) Abstract: A system and method of adapting a radiation therapy treatment plan. The method includes the acts of preparing a treatment plan for a patient, acquiring images of the patient, performing deformable registration of the images, acquiring data relating to a radiation dose delivered to the patient, applying a biological model relating the radiation dose delivered and a patient effect, and adapting the radiation therapy treatment plan based on the deformable registration and the biological model.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US06/28553

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - A61N 5/10 (2007.01)

USPC - 378/065

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)

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USPC - 378/065, 600/407

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)

USPTO EAST System (US, USPG-PUB, EPO, DERWENT), MicroPatent, IP.com, DialogPro

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 2003/076003 A2 (RUCHALA et al) 18 September 2003 (18.09.2003) entire document	1-24
Y	US 2004/0165696 A1 (LEE) 26 August 2004 (26.08.2004) entire document	1-24
Y	US 6,871,171 B1 (AGUR et al) 22 March 2005 (22.03.2005) entire document	3-7, 11
Y	US 2004/0202280 A1 (BESSON) 14 October 2004 (14.10.2004) entire document	14
Y	US 2002/0187502 A1 (WATERMAN et al) 12 December 2002 (12.12.2002) entire document	17
A	US 2002/0136439 A1 (RUCHALA et al) 26 September 2002 (26.09.2002) entire document	1-24

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