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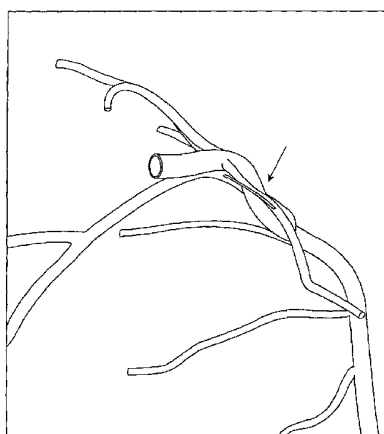
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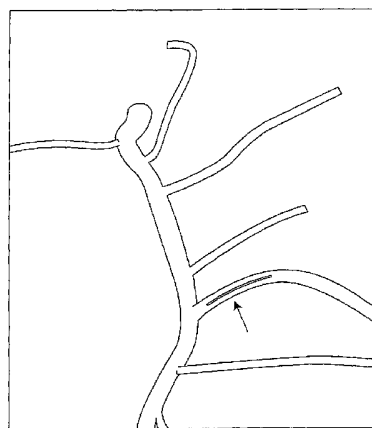
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[Continued on next page]

(54) Title: DETERMINING OPTIMAL WORKING VIEW FOR DIAGNOSIS IN VASCULAR SYSTEMS



A



C

(57) Abstract: A method is disclosed which allows for optimally viewing a portion of a patient vascular system to facilitate at least one of diagnosis and treatment the vascular system. The method includes acquiring a model of said vascular system based on image data generated by an imaging device, identifying a portion of interest of the vascular system including determining a central vessel axis for a vessel of interest, generating a foreshortening map of the portion of interest based on viewing angle of the imaging device position, with respect to the patient, generating an overlap map to determine an amount of overlap present for particular viewing angles based on imaging device position, and generating a feasibility map to model dimensions of the patient based on patient characteristics, imaging device configuration, foreshortening and overlap.



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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.

INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 G06T17/00 G06T11/00

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 G06T

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, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	S.-Y. CHEN, J. D. CARROLL: "Computer Assisted Coronary Intervention by Use of On-line 3D Reconstruction and Optimal View Strategy" PROCEEDINGS MEDICAL IMAGE COMPUTING AND COMPUTER-ASSISTED INTERVENTION, 11 October 1998 (1998-10-11), pages 377-385, XP008026963 Cambridge, MA, USA cited in the application abstract page 378 chapter 2 and subchapter 2.1 page 380, chapter 2.3 first three lines page 381, formulae 3 and 4 with description below page 381, chapter 4 first 5 lines page 381, chapter 4, third paragraph -----	1-3,5-24

☐ Further documents are listed in the continuation of box C.

☐ Patent family members are listed in annex.

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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

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