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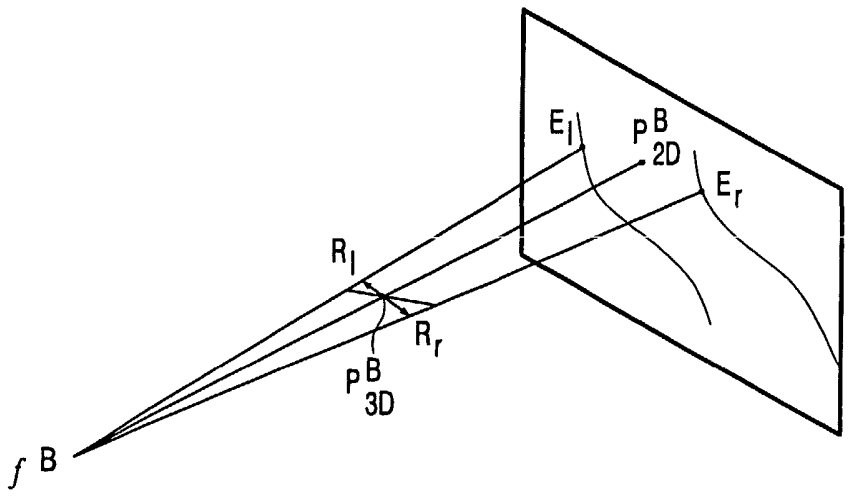
(54) Title: ANALYSIS OF A MULTI-DIMENSIONAL STRUCTURE




(57) Abstract: A method is provided for analysis of a multi-dimensional structure which includes a tubular structure from two-dimensional datasets for respective pre-determined projection directions. A pair of corresponding initial projected centre points of the tubular structure is identified in two respective initial and further two-dimensional datasets.Projected edges of the tubular structure in said initial two-dimensional datasets and in said further two-dimensional dataset near the respective projected centre points are identified. A local size of the tubular structure is derived at the three-dimensional spatial position of the centre point of the tubular structure from said projected edges and the predetermined projection directions.

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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
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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, PAJ, INSPEC, IBM-TDB

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category ° | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|---|---|---|
| X | COSTE E ET AL: "3D RECONSTRUCTION OF THE CEREBRAL ARTERIAL NETWORK FROM STEREOTACTIC DSA" MEDICAL PHYSICS, AMERICAN INSTITUTE OF PHYSICS. NEW YORK, US, vol. 26, no. 9, September 1999 (1999-09), pages 1783-1793, XP000930205 ISSN: 0094-2405 abstract page 1786, right-hand column, paragraph C.3D -page 1791, left-hand column, paragraph III | 1-5,7,8 |
| A | US 6 048 314 A (NIKOM JACOB) 11 April 2000 (2000-04-11) figure 8 | 1 |

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[X] Further documents are listed in the continuation of box C.

[X] Patent family members are listed in annex.

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| Date of the actual completion of the international search | Date of mailing of the international search report |
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| European Patent Office, P.B. 5818 Patentlaan 2<br>NL – 2280 HV Rijswijk<br>Tel. (+31–70) 340–2040, Tx. 31 651 epo nl,<br>Fax: (+31–70) 340–3016 | Chateau, J-P |

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category ° | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|---|---|---|
| A | WINDYGA P ET AL: "THREE-DIMENSIONAL RECONSTRUCTION OF THE CORONARY ARTERIES USING A PRIORI KNOWLEDGE" MEDICAL AND BIOLOGICAL ENGINEERING AND COMPUTING, PETER PEREGRINUS LTD. STEVENAGE, GB, vol. 36, no. 2, 1 March 1998 (1998-03-01), pages 158-164, XP000739381 ISSN: 0140-0118 page 159, left-hand column, paragraph 2 -page 160, left-hand column, paragraph 3 ----- | 1 |

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
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| Patent document cited in search report | Publication date | Patent family member(s) | Publication date |
|---|---|---|---|
| US 6048314 A | 11-04-2000 | NONE | |