

Title (en)

NON-INVASIVE TURBULENT BLOOD FLOW IMAGING SYSTEM

Title (de)

BILDERZEUGUNGSANORDNUNG FÜR NICHT-INVASIV GEMESSENE TURBULENTE BLUTSTRÖMUNGEN

Title (fr)

SYSTEME D'IMAGERIE NON INVASIF POUR ECOULEMENT SANGUIN TURBULENT

Publication

EP 1030592 A4 20040407 (EN)

Application

EP 97947373 A 19971110

Priority

US 9720186 W 19971110

Abstract (en)

[origin: WO9923940A1] A non-invasive methodology and instrumentation for the detection and localization of abnormal blood flow in a vessel of a patient, are described. An array of sensors (131) is positioned on an area of a patient's body above a volume in which blood flow may be abnormal. Signals detected by the sensor array (13) are processed to display an image which may indicate the presence or absence of abnormal blood flow.

IPC 1-7

A61B 5/02; G01S 15/89; G01S 7/52; A61B 8/06

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [Y] US 5365937 A 19941122 - REEVES WILLIAM [US], et al
- [XA] US 5327893 A 19940712 - SAVIC MICHAEL [US]
- [Y] FRANKLIN D ET AL: "Quantitative ultrasonic interferometry applicable to differential transit time flow measurement: preliminary report", ENGINEERING IN MEDICINE AND BIOLOGY SOCIETY, 1995., IEEE 17TH ANNUAL CONFERENCE MONTREAL, QUE., CANADA 20-23 SEPT. 1995, NEW YORK, NY, USA, IEEE, US, 20 September 1995 (1995-09-20), pages 619 - 620, XP010215538, ISBN: 0-7803-2475-7
- [AD] SEMMLOW J L ET AL: "Non-invasive diagnosis of coronary artery disease by enhanced coronary phonocardiography", IEEE 1982 FRONTIERS OF ENGINEERING IN HEALTH CARE. PROCEEDINGS - FOURTH ANNUAL CONFERENCE, PHILADELPHIA, PA, USA, 20-21 SEPT. 1982, 1982, New York, NY, USA, IEEE, USA, pages 181 - 185, XP008015143
- [Y] PIETRABISSA R ET AL: "A lumped parameter model to evaluate the fluid dynamics of different coronary bypasses", MEDICAL ENGINEERING & PHYSICS, SEPT. 1996, ELSEVIER, UK, vol. 18, no. 6, September 1996 (1996-09-01), pages 477 - 484, XP001161212, ISSN: 1350-4533
- See references of WO 9923940A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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