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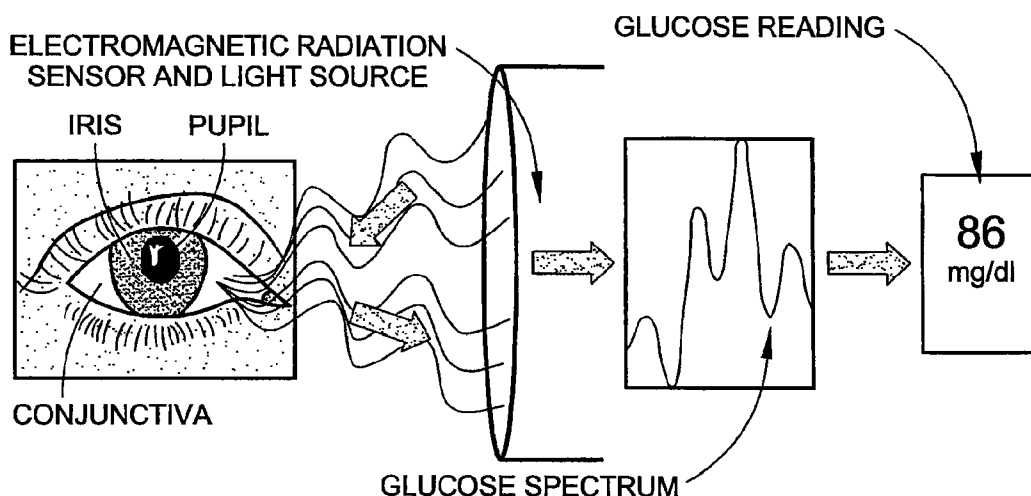
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(54) Title: METHODS FOR NON-INVASIVE ANALYTE MEASUREMENT



(57) Abstract: A method of non-invasively measuring the presence, absence, or concentration of one or more analytes in a tissue of a subject includes exposing at least a portion of a tissue of the subject to electromagnetic radiation; obtaining a measurement of electromagnetic radiation from the tissue; and determining the presence, absence, or concentration of one or more analytes by determining a radiation signature of the electromagnetic radiation; correlating the radiation signature of the electromagnetic radiation with at least one of concentration, presence, and absence of one or more analytes by utilizing a mathematic transformation such as a transformation based on a 1st or higher derivative of the measurement to determine the presence, absence, or concentration of one or more analytes in the subject.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US07/69454

A. CLASSIFICATION OF SUBJECT MATTER

IPC: A61B 5/1455(2006.01)

USPC: 600/319,310

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. : 600/319,310,318,322,473,476

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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,533,509 A (KOASHI et al) 09 July 1996 (09.07.1996), columns 3 - 6, 9 - 10.	1-3, 5, 8, 10-15, 17, 20, 22-24
X	US 5,070,874 A (BARNES et al) 10 December 1991 (10.12.1991), column 2, line 50 - column 4, line 47.	1-3, 5, 8-10, 13-15, 17, 20, 21, 24
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Y		4, 6, 7, 16, 18, 19
Y	US 2002/0049389 A1 (ABREU) 25 April 2002 (25.04.2002), paragraphs 1077-1111, 1204, 1205; Figures 104(A), 104(B).	4, 6, 7, 16, 18, 19



Further documents are listed in the continuation of Box C.



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"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
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