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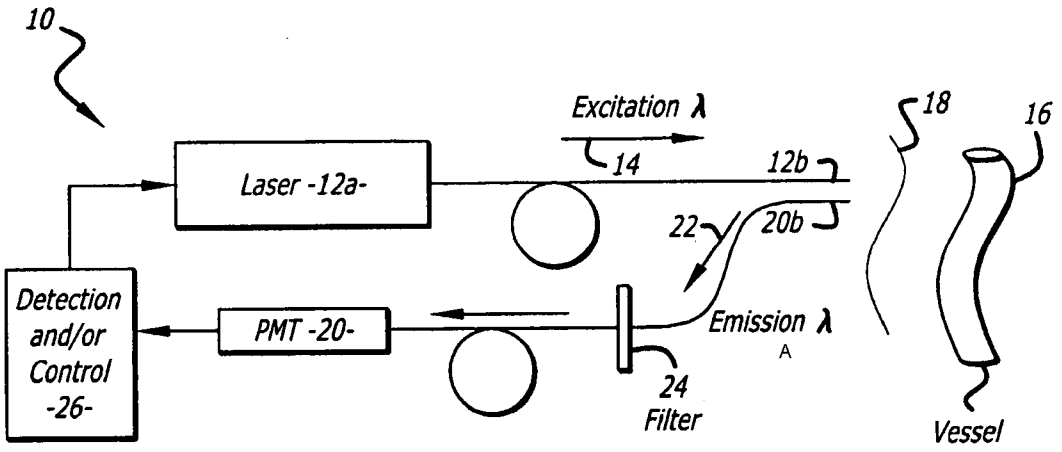
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(54) Title: METHOD FOR DYE INJECTION FOR THE TRANSCUTANEOUS MEASUREMENT OF CARDIAC OUTPUT



(57) Abstract: A system for evaluating the cardiovascular system parameters using indicator dilution and non-invasive or minimally invasive detection and calibration methods are disclosed. Intravascular indicators are stimulated, and emissions patterns detected for computation of cardiac output, cardiac index, blood volume and other indicators of cardiovascular health.

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 07/10908

A. CLASSIFICATION OF SUBJECT MATTER
IPC(8) - A61B 5/026 (2008.01); A61B 5/029 (2008.01)
USPC - 600/310, 322
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)
USPC: 600/310, 322

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
USPC: All classes

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
PubWEST (PGPB, USPT, EPAB, JPAB), Google Scholar, Google Patents, Google. WIPO PatentScope
Keywords: Cardiovascular, cardiac, heart, output, dye, bolus, inject, optic, light, physiologic, inert, saline, solution, concentration, variance, age, weight, EKG, trigger, signal, syringe, dilution, curve

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 2005/0182434 A1 (DOCHERTY et al.) 18 August 2005 (18.08.2005) para [0017], [0039], [0043], [0072]	1 --- 2-14
Y	US 6,577,884 B1 (BOAS) 10 June 2003 (10.06.2003) col 25 ln 66 to col 26, ln 3	14
Y	WO 93/22670 A1 (UNGER) 11 November 1993 (11.11.1993) page 20, ln 12-16	7-10
Y	US 3,618,591 A (BRADLEY et al.) 09 November 1971 (09.11.1971) col 1, ln 54-57; col 2, ln 25; col 2, ln 52-56; col 2, ln 58-60; col 2, ln 66 to col 3, ln 2; Fig 1	2-6, 11
Y	US 6,597,939 B1 (LAMPOTANG et al.) 22 July 2003 (22.07.2003) col 8, ln 24-48	12, 13

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

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"A" document defining the general state of the art which is not considered to be of particular relevance
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"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"&" document member of the same patent family

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