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(54) **Measurement apparatus**

(57) A measurement apparatus (100) includes an arithmetic processing means (14) which calculates the ratio of both collagen and lipid relative to the whole of a plurality of ingredients including collagen and lipid from a measurement result of the measurement means and the absorption coefficients of each ingredient, and determines the relationship of the fitting coefficients (μ_a) of the lipid and collagen and the state of biological tissue, and then determines the state of biological tissue of the

specimen from the ratio of collagen and the ratio of lipid which were calculated, and a display unit (17) which displays a result of processing by the arithmetic processing means. The measurement means uses a light having a predetermined wavelength within the wavelength range between 600nm and 700nm and at least two types of light having different wavelengths within the wavelength range between 730nm to 760nm as the plurality of types of light.

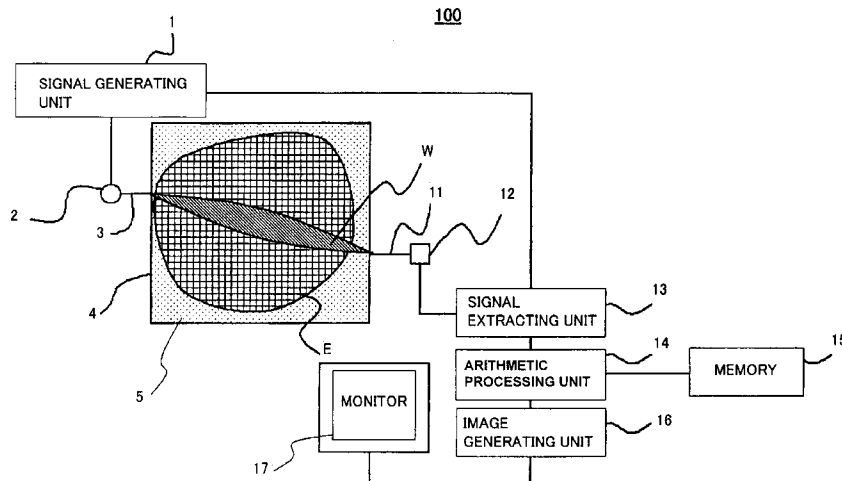


FIG.1



EUROPEAN SEARCH REPORT

Application Number
EP 08 01 6007

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X,D	TARONI P ET AL: "Assessment of collagen absorption and related potential diagnostic applications" PROCEEDINGS OF THE SPIE - THE INTERNATIONAL SOCIETY FOR OPTICAL ENGINEERING SPIE - THE INTERNATIONAL SOCIETY FOR OPTICAL ENGINEERING USA, vol. 6629, 20 July 2007 (2007-07-20), pages 66290D-1, XP002603249 ISSN: 0277-786X	1-7	INV. A61B5/00
Y	* Sections "2.1Time-resolved spectroscopy system" to "2.5 Data analysis" * * Section "4. Conclusions" * * table 1 *	8,9	
Y	----- CHARLES A DIMARZIO ET AL: "Medical Imaging Techniques Combining Light and Ultrasound" SUBSURFACE SENSING TECHNOLOGIES AND APPLICATIONS ; AN INTERNATIONAL JOURNAL, KLUWER ACADEMIC PUBLISHERS-PLENUM PUBLISHERS, NE, vol. 4, no. 4, 1 October 2003 (2003-10-01), pages 289-309, XP019291639 ISSN: 1573-9317 * page 297, paragraph 2 - page 305, paragraph 6 * -----	8,9	
			TECHNICAL FIELDS SEARCHED (IPC)
			A61B G01N
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 27 October 2010	Examiner Montes, Pau
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ----- & : member of the same patent family, corresponding document	

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专利名称(译)	测量装置		
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外部链接	Espacenet		

摘要(译)

测量装置 (100) 包括运算处理装置 (14) , 其根据测量装置的测量结果和每个的吸收系数计算胶原和脂质相对于包括胶原和脂质的多种成分的总和的比率。确定脂质和胶原的拟合系数 (μa) 与生物组织状态的关系, 然后根据计算出的胶原蛋白比例和脂质比例确定标本的生物组织状态, 显示单元 (17) , 显示运算处理装置的处理结果。测量装置使用在 600nm 和 700nm 之间的波长范围内具有预定波长的光和在 730nm 至 760nm 之间的波长范围内具有不同波长的至少两种类型的光作为多种类型的光。

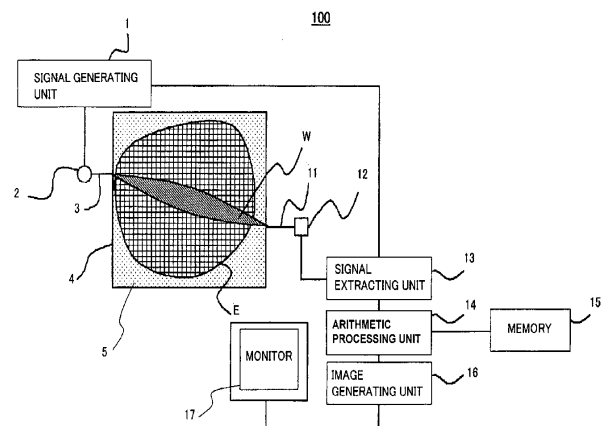


FIG.1