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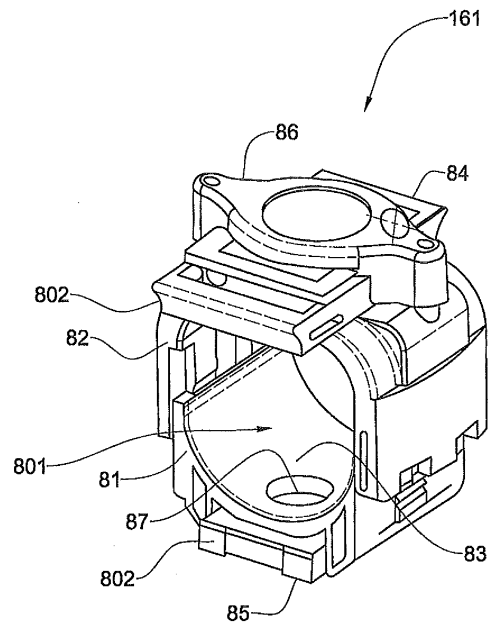
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(62) Document number(s) of the earlier application(s) in accordance with Art. 76 EPC:  
**04735644.9 / 1 628 564**

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(54) **Method and system for use in non-invasive optical measurements of blood parameters**

(57) A method and device are presented for use in non-invasive optical measurements of at least one desired characteristic of patient's blood. A condition of artificial blood kinetics is created at a measurement location in a patient's blood perfused fleshy medium and maintained for a certain time period, This condition is altered over a predetermined time interval within said certain time period so as to modulate scattering properties of blood.; Optical measurements are applied to the measurement location by illuminating it with incident light beams of at least two different wavelengths in a range where the scattering properties of blood are sensitive to light radiation, detecting light responses of the medium, and generating measured data indicative of time evolutions of the light responses of the medium for said at least two different wavelengths, respectively, over at least a part of said predetermined time interval.



**FIG. 8**



EUROPEAN SEARCH REPORT

Application Number  
EP 12 15 9026

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A	US 6 461 305 B1 (SCHNALL ROBERT P) 8 October 2002 (2002-10-08) * abstract; figures 10a-c * -----	5	
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The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 17 September 2012	Examiner Beck, Ewa
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EPO FORM 1503 03 82 (P04C01)

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专利名称(译)	用于血液参数的非侵入式光学测量的方法和系统		
公开(公告)号	<a href="#">EP2465420A3</a>	公开(公告)日	2012-10-24
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申请(专利权)人(译)	ORSENSE LTD.		
当前申请(专利权)人(译)	ORSENSE LTD.		
[标]发明人	FINE ILYA FINAROV ALEXANDER		
发明人	FINE, ILYA FINAROV, ALEXANDER		
IPC分类号	A61B5/00 A61B5/1455		
CPC分类号	A61B5/14552 A61B5/0059 A61B5/14532 A61B5/14546 A61B5/14551 A61B5/6826 A61B5/6838		
优先权	2003012663 2003-06-03 GB 10/452932 2003-06-03 US		
其他公开文献	EP2465420A2		
外部链接	<a href="#">Espacenet</a>		

摘要(译)

提出了一种方法和装置，用于对患者血液的至少一种所需特征进行非侵入性光学测量。在患者血液灌注的肉质培养基中的测量位置处产生人造血液动力学的条件并保持一定时间段。该条件在所述特定时间段内在预定时间间隔内改变，以便调节血液的散射特性。通过在血液的散射特性对光辐射敏感的范围用至少两种不同波长的入射光束照射测量位置，检测介质的光响应，并产生指示时间的测量数据，将光学测量应用于测量位置。在所述预定时间间隔的至少一部分上，分别针对所述至少两个不同波长的介质的光响应的演变。

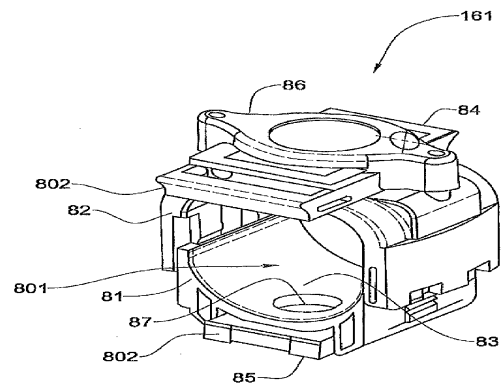


FIG. 8