



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
24.07.2002 Bulletin 2002/30

(51) Int Cl.7: **G01N 21/35, A61B 5/00**

(43) Date of publication A2:
24.04.2002 Bulletin 2002/17

(21) Application number: **01302661.2**

(22) Date of filing: **22.03.2001**

(84) Designated Contracting States:
**AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
 MC NL PT SE TR**
 Designated Extension States:
AL LT LV MK RO SI

• **Bio-oriented Technology Research
 Advancement Institution
 Minato-ku, Tokyo (JP)**

(30) Priority: **17.10.2000 JP 2000316330**

(72) Inventor: **Kawano, Sumio
 Tsuchiura-shi, Ibaraki (JP)**

(71) Applicants:
 • **JAPAN as represented by DIRECTOR GENERAL
 OF NATIONAL FOOD
 RESEARCH INSTITUTE, MINISTRY OF
 AGRICULTURE, FORESTRY AND FISHERIES
 Tsukuba-shi, Ibaraki 305 (JP)**

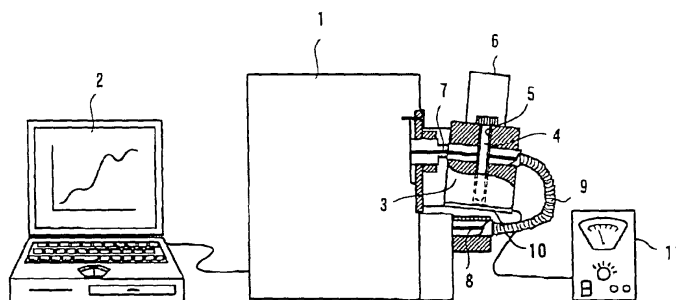
(74) Representative: **Davies, Christopher Robert
 Frank B. Dehn & Co.,
 European Patent Attorneys,
 179 Queen Victoria Street
 London EC4V 4EL (GB)**

(54) **Analytical method and apparatus for blood using near infrared spectroscopy**

(57) First, monochromatic near infrared light in a wavelength range of 700nm-1100nm from the slit of the near infrared apparatus 1 is applied to a ceramic plate through the optical fiber 7 to measure a transmitted light intensity of the ceramic plate which is a reference material for spectrum measurement. Next, in place of the ceramic plate, a blood collection tube 4 containing a blood sample of which the temperature has been adjust-

ed at a predetermined temperature by a water bath and the like is inserted into the housing portion 5. The transmitted light intensity of the blood sample is thus measured using the same procedure as above. A so-called near infrared absorption spectrum in which absorbance has been plotted against wavelengths is displayed on the screen of the computer 2. Information about object characteristics is extracted from the spectrum data using a calibration equation.

FIG. 1





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EUROPEAN SEARCH REPORT

Application Number
EP 01 30 2661

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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 10 May 2002	Examiner Huenges, A
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	

EPO FORM 1503 08.82 (P04001)



European Patent
Office

EUROPEAN SEARCH REPORT

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
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EPO FORM 1503 03 82 (P04001)

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专利名称(译)	使用近红外光谱的血液分析方法和装置		
公开(公告)号	EP1199554A3	公开(公告)日	2002-07-24
申请号	EP2001302661	申请日	2001-03-22
[标]申请(专利权)人(译)	日本食品卫生局局长一般代表土耳其林业和渔业局 BIO面向科技进步RES学		
申请(专利权)人(译)	由日本国家食品研究所主任表示, 农业部, 林业和渔业 生物技术导向发展研究学		
当前申请(专利权)人(译)	由日本国家食品研究所主任表示, 农业部, 林业和渔业 生物技术导向发展研究学		
[标]发明人	KAWANO SUMIO		
发明人	KAWANO, SUMIO		
IPC分类号	G01N33/49 A61B5/145 A61B5/1455 G01N21/01 G01N21/27 G01N21/35 G01N21/3577 G01N21/359 G01N21/53 A61B5/00		
CPC分类号	G01N21/359 G01N21/532 G01N33/49		
优先权	2000316330 2000-10-17 JP		
其他公开文献	EP1199554A2		
外部链接	Espacenet		

摘要(译)

首先, 通过光纤7将距近红外设备1的狭缝在700nm-1100nm波长范围内的单色近红外光施加到陶瓷板上, 以测量作为参考材料的陶瓷板的透射光强度。频谱测量。接下来, 代替陶瓷板, 将包含血液样本的血液采集管4插入到容纳部分5中, 所述血液样本的温度已经通过水浴等在预定温度下调节。因此, 使用与上述相同的程序测量血样。在计算机2的屏幕上显示所谓的近红外吸收光谱, 其中已经针对波长绘制了吸光度。使用校准方程从光谱数据中提取关于物体特性的信息。

FIG. 1

