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(54) **Simultaneous determination of forward and reverse ABO blood group**

(57) Simultaneous forward and reverse blood group testing is described using both a visual detection system and a fluorescent based labeling and detection system.

Forward and reverse tests could be performed separately, but A and B agglutinates can be detected and discriminated simultaneously.



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EUROPEAN SEARCH REPORT

Application Number
EP 00 30 4815

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
Y	AMINOLOLAMA-SHAKERI S ET AL: "SIMULTANEOUS ABO AND RH BLOOD TYPING BY FLOW CYTOMETRY USING A THREE COLOR FLUORESCENCE DETECTION SYSTEM" BLOOD,W.B. SAUNDERS, PHILADELPHIA, VA,US, vol. 86, no. 10, SUPPL. 01, 15 November 1995 (1995-11-15), page 609A XP000983389 ISSN: 0006-4971 * abstract *	1-24	G01N33/80 G01N33/58
Y	SHARON R ET AL: "QUANTITATIVE FLOW CYTOMETRIC ANALYSIS OF ABO RED CELL ANTIGENS" CYTOMETRY,ALAN R. LISS, INC,XX, vol. 12, no. 6, 1991, pages 545-549, XP000983391 ISSN: 0196-4763 * the whole document *	1-24	
Y	FREEDMAN J ET AL: "APPLICATIONS OF FLOW CYTOMETRY IN TRANSFUSION MEDICINE" TRANSFUSION MEDICINE REVIEWS,GRUNE AND STRATTON, ORLANDO, FL,,US, vol. 9, no. 2, April 1995 (1995-04), pages 87-109, XP000983392 ISSN: 0887-7963 * page 98, column 1 - page 100, column 1 *	1-24	TECHNICAL FIELDS SEARCHED (Int.Cl.7) G01N
Y	GARRATTY G ET AL: "APPLICATIONS OF FLOW CYTOFLUOROMETRY TO TRANSFUSION SCIENCE" TRANSFUSION,AMERICAN ASSOCIATION OF BLOOD BANKS, BETHESDA, MD,US, vol. 35, no. 2, January 1995 (1995-01), pages 157-178, XP000983723 ISSN: 0041-1132 * page 170, column 2 - page 171, column 2 *	1-24	
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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 19 April 2001	Examiner Weaver, M
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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European Patent
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EUROPEAN SEARCH REPORT

Application Number
EP 00 30 4815

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
A	WO 85 01354 A (IMMUCOR INC) 28 March 1985 (1985-03-28) * the whole document * ----	1-24	
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			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
The present search report has been drawn up for all claims			
Place of search MUNICH		Date of completion of the search 19 April 2001	Examiner Weaver, M
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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**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 00 30 4815

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

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[标]申请(专利权)人(译)	奥索临床诊断有限公司		
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其他公开文献	EP1059534A2 EP1059534B1		
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摘要(译)

使用视觉检测系统和基于荧光的标记和检测系统描述了同时正向和反向血型测试。可以分别进行正向和反向测试,但可以同时检测和区分A和B凝集物。

DOCUMENTS CONSIDERED TO BE RELEVANT		Relevance to claims	CLASSIFICATION OF THE APPLICATION (IPC CL. 7)
Y	AMINOLOLAMA-SHAKERI S ET AL: "SIMULTANEOUS ABO AND RH BLOOD TYPING BY FLOW CYTOMETRY USING A THREE-COLOR FLUORESCENCE DETECTION SYSTEM" BLOOD, W. B. SAUNDERS, PHILADELPHIA, VA, US, vol. 86, no. 19, SUPPL. 01, 15 November 1995 (1995-11-15), page 609A XP000983389 ISSN: 0006-4971 * abstract *	1-24	G01N33/80 G01N33/58
Y	SHARON R ET AL: "QUANTITATIVE FLOW CYTOMETRIC ANALYSIS OF ABO RED CELL ANTIGENS" ALAN R. LISS, INC. XX, vol. 12, no. 6, 1991, pages 545-549, XP000983391 ISSN: 0196-4763 * the whole document *	1-24	
Y	FREEDMAN J ET AL: "APPLICATIONS OF FLOW CYTOMETRY IN TRANSFUSION MEDICINE" STRATTON, ORLANDO, FL US, vol. 9, no. 2, Apr 11 1995 (1995-04), pages 87-109, XP000983392 ISSN: 0887-7863 * page 98, column 1 - page 100, column 1 *	1-24	TECHNICAL FIELDS SEARCHED (IPC CL. 7) G01N
Y	GARRATTY G ET AL: "APPLICATIONS OF FLOW CYTOMETRY TO TRANSFUSION SCIENCE" TRANSFUSION AMERICAN ASSOCIATION OF BLOOD BANKS, BETHESDA, MD, US, vol. 35, no. 2, January 1995 (1995-01), pages 157-178, XP000983723 ISSN: 0041-132 * page 170, column 2 - page 171, column 2 *	1-24	

The present search report has been drawn up for all claims.

Place of search: MUNICH Date of completion of the search: 19 Apr 11 2001 Examiner: Weaver, M

CATEGORY OF CITED DOCUMENTS

- X particularly relevant to the claims
- Y particularly relevant to the claims with another category of the cited document
- A non-relevant document
- Q non-written document
- U irrelevant document
- E entry or priority under the provisions of article 84(2) of the EPC
- D document cited for other reasons
- A member of the same patent family, corresponding document