European Patent Office

Application Number
EP 01 97 0169

CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):

☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.

☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.

☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:

☒ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

1-9, 15, 17, 21, 24 (all completely), 11, 14, 23
26-29 (all partially)

European Patent Office

LACK OF UNITY OF INVENTION
SHEET B

Application Number
EP 01 97 0169

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-9, 15, 17, 21, 24 (all completely), 11, 14, 23, 26-29 (all partially)

A reaction detecting method comprising detecting a reaction of a substance in an electrolytic solution on the basis of measurement of an electric conductivity of the electrolytic solution, and subject-matter related thereto.

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2. claims: 10, 12, 13, 16, 18, 19, 20, 22, 25, (all completely), 11, 14, 23, 26-29 (all partially)

An immune reaction detecting method comprising detecting an immune reaction between an antigen and an antibody in a subject solution on the basis of measurement of a temperature of the subject solution, and subject-matter related thereto.

European Patent Office

SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application Number
EP 01 97 0169

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)
X	WO 99/62919 A (ROCHE DIAGNOSTICS CORP) 9 December 1999 (1999-12-09) * the whole document *	1-9,15, 17,21, 24,26-29	G01N33/483 G01N33/53 G01N27/06
X	EP 0 763 728 A (SCITEC KABUSHIKI KAISHA ; TOA ELECTRONICS (JP)) 19 March 1997 (1997-03-19) * the whole document *	1-3,5, 15,17	
X	MERMIGIDIS G: "DAS THEOPRAX-VERFAHREN: DIE RENAISSANCE DER LEITFAEHIGKEITSMESSUNG THE THEOPRAX-METHOD: A NEW WAY TO USE CONDUCTIVITY MEASUREMENT IN ANALYTICAL CHEMISTRY" GIT LABOR-FACHZEITSCHRIFT, GIT VERLAG, DE, vol. 3, no. 1, 1999, pages 36-37, XP009039355 * the whole document *	1-4,8, 15,17, 24,26-29	
X	WOBSCHALL D ET AL: "STEP CONDUCTANCE INCREASES IN BILAYER MEMBRANES INDUCED BY ANTIBODY-ANTIGEN-COMPLEMENT ACTION" BIOCHIMICA ET BIOPHYSICA ACTA, AMSTERDAM, NL, vol. 413, no. 2, 1975, pages 317-321, XP009039353 ISSN: 0006-3002 * the whole document *	1-4,8,9, 15,17, 24,26-29	TECHNICAL FIELDS SEARCHED (Int.Cl.7) G01N

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The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search	Date of completion of the search	Examiner
Munich	26 November 2004	Morawetz, R

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 03.82 (P04C04)

European Patent Office

SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application Number
EP 01 97 0169

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)
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X	ZHOU B Y ET AL: "Specific antibodies to the external vestibule of voltage-gated potassium channels block current" JOURNAL OF GENERAL PHYSIOLOGY, ROCKEFELLER INSTITUTE FOR MEDICAL RESEARCH,, US, vol. 111, no. 4, April 1998 (1998-04), pages 555-563, XP002109760 ISSN: 0022-1295 * the whole document *	1-4,8,9, 24,26-29	
A	THOMAS V ET AL: "A NOVEL COVALENT ENZYME-LINKED IMMUNOASSAY CELIA FOR SIMULTANEOUSLY MEASURING FREE AND IMMUNE COMPLEX BOUND ANTIBODIES WITH A DEFINED SPECIFICITY II. APPLICATION TO IMMUNE COMPLEXES CONTAINING VIRAL ANTIGENS IN HUMAN SERA" JOURNAL OF IMMUNOLOGICAL METHODS, vol. 133, no. 1, 1990, pages 13-19, XP002307743 ISSN: 0022-1759 * the whole document *		TECHNICAL FIELDS SEARCHED (Int.Cl.7)

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search	Date of completion of the search	Examiner
Munich	26 November 2004	Morawetz, R

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ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO. EP 01 97 0169

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
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

26-11-2004

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9962919 A	09-12-1999	AT 266868 T	15-05-2004
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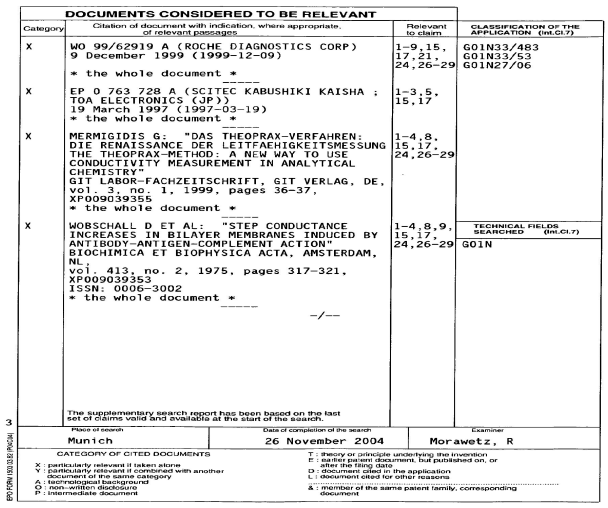
EPO FORM P0459

专利名称(译)	反应检测方法，免疫反应检测方法和装置		
公开(公告)号	EP1319949A4	公开(公告)日	2005-06-01
申请号	EP2001970169	申请日	2001-09-20
申请(专利权)人(译)	SEINO裕子		
当前申请(专利权)人(译)	SEINO裕子		
[标]发明人	SEINO YUKO ISHII MASARU GOTSU TOSHIO		
发明人	SEINO, YUKO ISHII, MASARU GOTSU, TOSHIO		
IPC分类号	G01N27/02 G01N27/06 G01N33/487 G01N33/536 G01N33/483 G01N33/53		
CPC分类号	G01N33/536 G01N27/021		
优先权	2000286188 2000-09-20 JP		
其他公开文献	EP1319949A1		
外部链接	Espacenet		

摘要(译)

可以更简单快速地检测物质的反应，而无需昂贵的大型设备和测量仪器。反应检测方法通过测量电解液的电导率来检测电解液中物质的反应。免疫反应检测方法通过测量电解液的电导率来检测电解液中抗原和抗体的免疫反应。另一种免疫反应检测方法通过测量待检测液体的温度来检测待检查液体中抗原和抗体的免疫反应。



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X	WOBSCHALL D ET AL: "STEP CONDUCTANCE INCREASES IN BILAYER MEMBRANES INDUCED BY ANTIBODY-ANTIGEN-COMPLEMENT ACTION" BIOCHIMICA ET BIOPHYSICA ACTA, AMSTERDAM, NL; vol. 413, no. 2, 1975, pages 317-321, XP009039353 ISSN: 0006-3002 * the whole document *	1-4,8,9, 15,17, 24,26-29	TECHNICAL FIELDS SEARCHED (Int.Cl.7) G01N

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