

SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application Number
EP 15 84 2376

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
A	US 2013/004978 A1 (HEBERT MARIE-JOSEE [CA] ET AL) 3 January 2013 (2013-01-03) * claims 1 - 18, par. 0050 - 52 *	1-21	INV. G01N33/53 G01N33/96 C07K14/705 G01N33/564 G01N33/68
A	EP 1 884 776 A1 (CELLTREND GMBH [DE]) 6 February 2008 (2008-02-06) * example 1 *	1-21	
A	DRAGUN DUSKA ET AL: "Angiotensin II type 1-receptor activating antibodies in renal-allograft rejection", NEW ENGLAND JOURNAL OF MEDICINE, THE - NEJM -, MASSACHUSETTS MEDICAL SOCIETY, US, vol. 352, no. 6, 10 February 2005 (2005-02-10), pages 558-569, XP002408393, ISSN: 0028-4793, DOI: 10.1056/NEJM0A035717 * the whole document *	1-21	
A	BRIAN D TAIT ET AL: "Review article: Luminex technology for HLA antibody detection in organ transplantation", NEPHROLOGY, vol. 14, no. 2, 1 March 2009 (2009-03-01), pages 247-254, XP055439640, AU ISSN: 1320-5358, DOI: 10.1111/j.1440-1797.2008.01074.x * the whole document *	1-21	
The supplementary search report has been based on the last set of claims valid and available at the start of the search.			TECHNICAL FIELDS SEARCHED (IPC) G01N
Place of search Munich		Date of completion of the search 16 January 2018	Examiner Hoesel, Heidi
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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EPO FORM 1503 03.82 (P04N04)

SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application Number
EP 15 84 2376

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
A	GRANDTNEROVA B ET AL: "Hyperacute Rejection of Living Related Kidney Grafts Caused by Endothelial Cell-Specific Antibodies: Case Reports", TRANSPLANTATION PROCEEDINGS, ELSEVIER INC, ORLANDO, FL; US, vol. 40, no. 7, 1 September 2008 (2008-09-01), pages 2422-2424, XP025407231, ISSN: 0041-1345, DOI: 10.1016/J.TRANSPROCEED.2008.06.014 [retrieved on 2008-09-12] * the whole document *	1-21	
X	Toshihiro Matsui ET AL: "Autoantibodies to T Cell Costimulatory Molecules in Systemic Autoimmune Diseases", The Journal of Immunology, 1 April 1999 (1999-04-01), page 4328, XP055439571, UNITED STATES Retrieved from the Internet: URL: http://www.jimmunol.org/content/jimmunol/162/7/4328.full.pdf [retrieved on 2017-01-10] * the whole document *	18,19	
The supplementary search report has been based on the last set of claims valid and available at the start of the search.			TECHNICAL FIELDS SEARCHED (IPC)
Place of search Munich		Date of completion of the search 16 January 2018	Examiner Hoesel, Heidi
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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EPO FORM 1503 03.82 (P04N04)

CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing claims for which payment was due.

☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due 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 those claims for which no payment was due.

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 (supplementary) 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 (supplementary) 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 (supplementary) European search report has been drawn up for those parts of the European patent application which relate to the first mentioned in the claims, namely claims:

1-21(partially)

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: 1-21(partially)

diagnosis/ prediction of graft rejection by way of
determining an antibody reacting with CTLA-4 (CD152), alone
or in combination with at least a further marker listed in
claim 1 and kit for carrying out the assay

2-54. claims: 1-21(partially)

diagnosis/ prediction of graft rejection by way of
determining an antibody reacting with (2) TRIM21, (3) HSH2D,
(4), IFI6,..., (53) HLA_DPA1, (54) TSSK2, alone or in
combination with at least a further marker listed in claim 1
and kit for carrying out the assay

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 15 84 2376

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.

16-01-2018

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 2013004978	A1	03-01-2013	CA	2828917	A1	15-09-2011
			EP	2545378	A1	16-01-2013
			US	2013004978	A1	03-01-2013
			WO	2011109909	A1	15-09-2011

EP 1884776	A1	06-02-2008	EP	1884776	A1	06-02-2008
			EP	2057470	A1	13-05-2009
			EP	2352032	A1	03-08-2011
			ES	2388082	T3	08-10-2012
			ES	2540801	T3	13-07-2015
			US	2010075348	A1	25-03-2010
			WO	2008015219	A1	07-02-2008

专利名称(译)	用于检测同种异体移植排斥中的抗内皮细胞抗体的组合物和方法		
公开(公告)号	EP3194963A4	公开(公告)日	2018-06-06
申请号	EP2015842376	申请日	2015-09-18
[标]申请(专利权)人(译)	IMMUCOR GTI诊断 约翰霍普金斯大学		
申请(专利权)人(译)	IMMUCOR GTI诊断, INC. 约翰·霍普金斯大学		
当前申请(专利权)人(译)	IMMUCOR GTI诊断, INC. 约翰·霍普金斯大学		
[标]发明人	SARWAL MINNIE M SIGDAL TARA JACKSON ANNETTE M		
发明人	SARWAL, MINNIE, M. SIGDAL, TARA JACKSON, ANNETTE, M.		
IPC分类号	G01N33/53 G01N33/96 C07K14/705		
CPC分类号	G01N33/6854 G01N33/50 G01N33/564 G01N33/6893 G01N2800/245		
代理机构(译)	POTTER CLARKSON LLP		
优先权	62/052251 2014-09-18 US 62/058046 2014-09-30 US		
其他公开文献	EP3194963A1		
外部链接	Espacenet		

摘要(译)

本文提供了通过鉴定抗内皮细胞抗体的存在来诊断器官移植物的同种异体移植排斥的方法，组合物和试剂盒。这些方法和组合物不依赖于外部混杂因素，例如受体年龄，移植中心，测定，终末期疾病的原因，共病，免疫抑制使用等。

DOCUMENTS CONSIDERED TO BE RELEVANT		Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
Category	Classifications of documents with indication, where appropriate, of relevant passages		
A	US 2013/0049292 A1 (HEBERT MARIE-JOSEE [CA] ET AL) 3 January 2013 (2013-01-03) " claims 1 - 15, par. 0050 - 52 "	1-21	1B1 G01N33/53 G01N33/96 C07K14/705 G01N33/564 G01N33/68
A	EP 1 884 776 A1 (CELLTECH GMBH [DE]) 6 February 2008 (2008-02-06) " example 1 "	1-21	
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The supplementary search report has been based on the last list of claims valid and available at the start of the search.			
Munich		16 January 2018	Hoesel, Heidi
CATEGORY OF CITED DOCUMENTS		1. theory or principle underlying the invention 2. document cited in the application 3. document cited in the prior art 4. document cited for other reasons 5. document cited for other reasons 6. document cited for other reasons 7. document cited for other reasons 8. document cited for other reasons 9. document cited for other reasons 10. document cited for other reasons	