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(54) **Methods and devices for diagnosis of appendicitis**

(57) An immunoassay test device is provided for detecting the presence of a molecule differentially associated with appendicitis in a sample from a patient suspected of having appendicitis. The device includes a first antibody specific to the molecule, a support for the first antibody, means for contacting the first antibody with the

sample, and means for detecting binding of the first antibody with the molecule. MRP-8/14 and haptoglobin are examples of molecules differentially associated with appendicitis. In one embodiment, the device is in a flow-through format for testing blood samples.

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EUROPEAN SEARCH REPORT

Application Number  
EP 10 00 7673

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	<p>IKEMOTO MASAKI ET AL: "New ELISA system for myeloid-related protein complex (MRP8/14) and its clinical significance as a sensitive marker for inflammatory responses associated with transplant rejection"                      CLINICAL CHEMISTRY, AMERICAN ASSOCIATION FOR CLINICAL CHEMISTRY, WASHINGTON, DC                      LNKD- DOI:10.1373/49.4.594,                      vol. 49, no. 4, 1 April 2003 (2003-04-01),                      pages 594-600, XP002456282                      ISSN: 0009-9147                      * pages 595-596 *</p> <p style="text-align: center;">-----</p>	1-10	INV. C12Q1/68 G01N33/53 G01N33/558
X	<p>EP 0 585 201 A1 (BMA BIOMEDICALS AG [CH])                      2 March 1994 (1994-03-02)                      * pages 4-5 *</p> <p style="text-align: center;">-----</p>	1-10	
-----			TECHNICAL FIELDS SEARCHED (IPC)  G01N
<del>The present search report has been drawn up for all claims</del>			
Place of search		Date of completion of the search	Examiner
The Hague		27 October 2010	Lunter, Pim
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 (P04C01)



Application Number  
EP 10 00 7673

<b>CLAIMS INCURRING FEES</b>
<p>The present European patent application comprised at the time of filing claims for which payment was due.</p> <p><input type="checkbox"/> 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):</p> <p><input type="checkbox"/> 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.</p>
<b>LACK OF UNITY OF INVENTION</b>
<p>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:</p> <p style="margin-left: 40px;">see sheet B</p> <p><input type="checkbox"/> All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.</p> <p><input type="checkbox"/> As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.</p> <p><input type="checkbox"/> 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:</p> <p><input checked="" type="checkbox"/> 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: 2, 3(completely); 1, 5-10(partially)</p> <p><input type="checkbox"/> The present supplementary 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 (Rule 164 (1) EPC).</p>



**LACK OF UNITY OF INVENTION  
SHEET B**

Application Number  
EP 10 00 7673

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: 2, 3(completely); 1, 5-10(partially)

Immunoassay test device and kit for detecting the presence  
of MRP-8/14

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2. claims: 4(completely); 1, 5-10(partially)

Immunoassay test device and kit for detecting the presence  
of haptoglobin

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

EP 10 00 7673

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.

27-10-2010

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0585201	A1	02-03-1994 CH 685959 A5	15-11-1995

EPC FORM P 0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

专利名称(译)	用于诊断阑尾炎的方法和装置		
公开(公告)号	<a href="#">EP2258866A3</a>	公开(公告)日	2011-03-30
申请号	EP2010007673	申请日	2005-07-25
申请(专利权)人(译)	AspenBio公司PHARMA, INC.		
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发明人	COLGIN, MARK A. BEALER, JOHN F. DONNELLY, RICHARD NEWMAN, DIANE		
IPC分类号	C12Q1/68 G01N33/53 G01N33/558		
CPC分类号	G01N33/6872 C12Q1/6883 C12Q2600/158 G01N33/6893 G01N2800/06 Y10S435/81		
优先权	60/590631 2004-07-23 US		
其他公开文献	EP2258866A2		
外部链接	<a href="#">Espacenet</a>		

摘要(译)

提供免疫测定试验装置，用于检测来自怀疑患有阑尾炎的患者样品中与阑尾炎差异相关的分子的存在。该装置包括对分子特异的第一抗体，第一抗体的支持物，使第一抗体与样品接触的装置，和检测第一抗体与分子结合的装置。MRP-8/14和触珠蛋白是与阑尾炎差异相关的分子的实例。在一个实施例中，该装置采用流通格式，用于测试血液样本。

DOCUMENTS CONSIDERED TO BE RELEVANT		Relevant to class	CLASSIFICATION OF THE APPLICATOR (IPC)
X	IKEMOTO MASAKI ET AL: "New ELISA system for Boreloid-related protein complex (MRP8/14) and its clinical significance as a sensitive marker for inflammatory responses associated with transplant rejection. CLINICAL CHEMISTRY: AMERICAN ASSOCIATION FOR CLINICAL CHEMISTRY, WASHINGTON, DC LNKD- DOI:10.1373/49.4.594. VOL. 49, no. 4, 1 April 2003 (2003-04-01), pages 594-606 *XP002456282 * ISSN: 0009-9147 * pages 595-596 *	1-10	INV: C12Q1/68 G01N33/53 G01N33/558
X	EP 0 585 201 A1 (BMA BIOMEDICALS AG [CH]) 2 March 1994 (1994-03-02) * pages 4-5 * -----	1-10	IPC CLASSICAL PERS (DE) SEPARATED G01N

\*The present search report has been obtained upon the request of the applicant.

<p>THE ISSUES</p> <p>DATE OF COMPLETION OF THE SEARCH: 27 October 2010</p> <p>CLASSIFIER: Lutkep., Pim</p>	<p>CLASSIFICATION OF CITED DOCUMENTS</p> <p>1: primary or priority document underlying the invention</p> <p>2: other cited document, not disclosed on, or after the filing date</p> <p>3: document cited in the abstract</p> <p>4: document cited for other reasons</p> <p>5: translator of the same patent family, corresponding document</p>
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