

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	WO 2010/055488 A2 (KONINKL PHILIPS ELECTRONICS NV [NL]; WU YING [CN]; ZHU HONGGUANG [CN];) 20 May 2010 (2010-05-20) * claims 1-4 *	1	INV. C12Q1/68
A	WO 2011/012074 A1 (JIANGSU MICROMEDMARK BIOTECH CO LTD [CN]; ZHANG CHENYU [CN]; ZENG KE [CN]) 3 February 2011 (2011-02-03) * claim 1 *	1	
A	WO 2012/151212 A1 (UNIV ROCHESTER [US]; BARRY CHRISTOPHER [US]; GODFREY TONY [US]; ALMUDE) 8 November 2012 (2012-11-08) * claims 1,2 *	1	
X	H. PERSSON ET AL: "Identification of New MicroRNAs in Paired Normal and Tumor Breast Tissue Suggests a Dual Role for the ERBB2/Her2 Gene", CANCER RESEARCH, vol. 71, no. 1, 1 January 2011 (2011-01-01), pages 78-86, XP055031361, ISSN: 0008-5472, DOI: 10.1158/0008-5472.CAN-10-1869 * the whole document * & Anonymous: "miRNA Search Results", 1 January 2011 (2011-01-01), XP055431877, Retrieved from the Internet: URL:http://www.mirbase.org/cgi-bin/referen ce.pl?medline=21199797 [retrieved on 2017-12-05] -/--	1-12	
			TECHNICAL FIELDS SEARCHED (IPC)
			C12Q
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 The Hague		Date of completion of the search 5 December 2017	Examiner Gabriels, Jan
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	

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
	& Anonymous: "miRNA Search Results", 1 January 2011 (2011-01-01), XP055431878, Retrieved from the Internet: URL:http://www.mirbase.org/cgi-bin/mature.pl?mature_acc=MIMAT0019776 [retrieved on 2017-12-05] & DATABASE EMBL [Online]		
	13 January 2011 (2011-01-13), "Homo sapiens microRNA hsa-miR-1343-3p", retrieved from EBI accession no. EM_STD:FR772692 Database accession no. FR772692 * sequence *		
E	----- EP 3 156 483 A1 (TORAY INDUSTRIES [JP]; NAT CANCER CENTER [JP]) 19 April 2017 (2017-04-19) * the whole document *	1-15	
E	----- EP 3 159 416 A1 (TORAY INDUSTRIES [JP]; NAT CANCER CENTER [JP]) 26 April 2017 (2017-04-26) * the whole document *	1-15	TECHNICAL FIELDS SEARCHED (IPC)
X,P	----- WO 2014/114802 A1 (CHARITÉ UNIVERSITÄTSMEDIZIN BERLIN [DE]) 31 July 2014 (2014-07-31) * the whole document *	1-12	
E	----- EP 3 150 707 A1 (TORAY INDUSTRIES [JP]; NAT CANCER CENTER [JP]) 5 April 2017 (2017-04-05) * the whole document *	1-15	
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
The Hague		5 December 2017	Gabriels, Jan
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:
- 1-15(partially)



**LACK OF UNITY OF INVENTION
SHEET B**

Application Number
EP 15 81 0147

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: 1-15(partially)

A kit comprising miR-1343-3p or a device comprising miR-1343-3p for use in a method for detecting liver cancer.

2-184. claims: 1-15(partially)

Idem as for invention 1 but limited to the next miRNA listed in claim 1 wherein invention 2 corresponds to miR-6726-5p, invention 3 corresponds to miR-6836-3p,....., and invention 184 corresponds to miR-3940-5p.

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

EP 15 81 0147

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.

05-12-2017

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			KR 20170016490 A	13-02-2017
			US 2017121779 A1	04-05-2017
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			KR 20170010856 A	01-02-2017
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			WO 2015182781 A1	03-12-2015

专利名称(译)	肝癌检测试剂盒或装置，以及检测方法		
公开(公告)号	EP3159398A4	公开(公告)日	2018-04-18
申请号	EP2015810147	申请日	2015-06-18
[标]申请(专利权)人(译)	东丽株式会社 NAT癌症CENT		
申请(专利权)人(译)	TORAY INDUSTRIES, INC. 国家癌症中心		
当前申请(专利权)人(译)	TORAY INDUSTRIES, INC. 国家癌症中心		
[标]发明人	KONDOU SATOSHI NOBUMASA HITOSHI KOZONO SATOKO SUDO HIROKO KAWAUCHI JUNPEI OCHIAI ATSUSHI KOJIMA MOTOHIRO		
发明人	KONDOU SATOSHI NOBUMASA HITOSHI KOZONO SATOKO SUDO HIROKO KAWAUCHI JUNPEI OCHIAI ATSUSHI KOJIMA MOTOHIRO		
IPC分类号	C12M1/34 C12N15/09 C12Q1/04 C12Q1/68 G01N33/53 G01N33/574 G01N37/00		
CPC分类号	C12Q1/6886 C12Q2600/158 C12Q2600/178 C12Q1/6837 C12M1/34 C12N15/09 C12Q1/04 C12Q2600/118 G01N33/53 G01N33/574 G01N37/00		
优先权	2014124880 2014-06-18 JP		
其他公开文献	EP3159398A1		
外部链接	Espacenet		

摘要(译)

旨在提供用于检测肝癌的试剂盒或装置以及用于检测肝癌的方法。本发明涉及用于检测肝癌的试剂盒或装置，其包含能够特异性结合受试者样品中的miRNA的核酸，和检测肝癌的方法，包括体外测量miRNA。

DOCUMENTS CONSIDERED TO BE RELEVANT		Relevant to:	CLASSIFICATION OF THE APPLICATION (IPC)
A	WO 2010/055488 A2 (KONINKS PHILIPS ELECTRONICS BV [NL]; WO FING [CN]; ZHU MINGGUANG [CN]); 20 May 2010 (2010-05-20) * Claims 1-4	1	INV. C12Q1/68
A	WO 2011/012074 A1 (JIANGSU MICROMEDMARK BIOTECH CO LTD [CN]; ZHANG CHENYU [CN]; ZENG KE [CN]); 3 February 2011 (2011-02-03) * claim 1	1	
A	WO 2012/151312 A1 (UNIV ROCHESTER [US]; BARRY CHRISTOPHER [US]; GODFREY TONY [US]; ALMUSE) 9 November 2012 (2012-11-09) * Claims 1.2	1	
X	H. PERSSON ET AL: "Identification of New MicroRNAs in Paired Normal and Tumor Breast Tissue Suggests a Dual Role for the CBR3/HEX Gene" CANCER RESEARCH vol. 71, no. 11 1 January 2011 (2011-01-01), pages 78-86, ISSN: 0008-5472, DOI: 10.1158/0008-5472.CCR-10-1869 * the whole document & Anonymous: "miRNA Search Results", 1 January 2011 (2011-01-01), XP05431877, Retrieved from the Internet: URL: http://www.ncbi.nlm.nih.gov/cgi-bin/entrez/efetch.fcgi?db=pubmed&retmode=full [retrieved on 2017-12-05]	1-12	TECHNICAL FIELD: C12Q

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

1 The Hague, 5 December 2017, Gabriëls, Jan