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SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 19 86 16 43

Classification of the application (IPC):

C12P 19/34, C12Q 1/68, C12Q 1/686, G01N 1/28, G01N 33/48, G01N 33/50,
G01N 33/574

Technical fields searched (IPC):

C12Q

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
A	WO 2016054255 A1 (CHRONIX BIOMEDICAL [US]) 07 April 2016 (2016-04-07) * the whole document *	1-15
A	FIONA M F LUN ET AL: "Noninvasive prenatal diagnosis of monogenic diseases by digital size selection and relative mutation dosage on DNA in maternal plasma" <i>PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES, NATIONAL ACADEMY OF SCIENCES</i> , 16 December 2008 (2008-12-16), vol. 105, no. 50, DOI: 10.1073/PNAS.0810373105, ISSN: 0027-8424, pages 19920-19925, XP002620453 * the whole document *	1-15
A	WO 2016168844 A1 (THE TRANSLATIONAL GENOMICS RES INST [US]) 20 October 2016 (2016-10-20) * the whole document *	1-15
A	A. SIKORA ET AL: "Detection of Increased Amounts of Cell-Free Fetal DNA with Short PCR Amplicons" <i>CLINICAL CHEMISTRY</i> , 01 January 2010 (2010-01-01), vol. 56, no. 1, DOI: 10.1373/clinchem.2009.132951, ISSN: 0009-9147, pages 136-138, XP055081573 * the whole document *	1-15
X	EP 2183387 B1 (UNIV HONG KONG CHINESE [CN]) 26 February 2014 (2014-02-26) * the whole document *	1-14
A	WO 2015013681 A1 (BIO RAD LABORATORIES [US]) 29 January 2015 (2015-01-29) * the whole document *	1-15
A	WO 2013181276 A1 (HUTCHINSON FRED CANCER RES [US]) 05 December 2013 (2013-12-05) * 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 The Hague	Date of completion of the search 13 May 2022	Examiner Botz, Jürgen
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CATEGORY OF CITED DOCUMENTS

X: particularly relevant if taken alone	P: intermediate document
Y: particularly relevant if combined with another document of the same category	T: theory or principle underlying the invention
A: technological background	E: earlier patent document, but published on, or after the filing date
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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
A	EP 1948816 B1 (UNIV JOHNS HOPKINS [US]) 07 December 2011 (2011-12-07) * the whole document *	1-15
A	WO 2018137685 A1 (UNIV HONG KONG CHINESE [CN]; GRAIL INC [US]) 02 August 2018 (2018-08-02) * 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.

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Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 2016054255	A1	07-04-2016	DK	3201361 T3	18-05-2020
			EP	3201361 A1	09-08-2017
			ES	2791328 T3	03-11-2020
			HR	P20200764 T1	24-07-2020
			HU	E049094 T2	28-09-2020
			LT	3201361 T	10-06-2020
			PL	3201361 T3	07-09-2020
			PT	3201361 T	13-05-2020
			SI	3201361 T1	31-07-2020
			US	2017327869 A1	16-11-2017
			WO	2016054255 A1	07-04-2016
			WO 2016168844	A1	20-10-2016
US	2018105864 A1	19-04-2018			
US	2020283827 A1	10-09-2020			
WO	2016168844 A1	20-10-2016			
EP 2183387	B1	26-02-2014	AU	2008285465 A1	12-02-2009
			CA	2694619 A1	12-02-2009
			CN	101855363 A	06-10-2010
			EP	2183387 A2	12-05-2010
			KR	20100063050 A	10-06-2010
			US	2009053719 A1	26-02-2009
			US	2011183330 A1	28-07-2011
			WO	2009019455 A2	12-02-2009
WO 2015013681	A1	29-01-2015	CN	105555972 A	04-05-2016
			EP	3024948 A1	01-06-2016
			US	2015038356 A1	05-02-2015
			WO	2015013681 A1	29-01-2015
WO 2013181276	A1	05-12-2013	US	2015133312 A1	14-05-2015
			WO	2013181276 A1	05-12-2013



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Patent document cited in search report	Publication date	Patent family member(s)	Publication date	
EP 1948816	B1	07-12-2011	AT 536420 T	15-12-2011
			CY 1112525 T1	09-12-2015
			DK 1948816 T3	02-04-2012
			EP 1948816 A2	30-07-2008
			EP 2428579 A1	14-03-2012
			ES 2381204 T3	24-05-2012
			ES 2426031 T3	18-10-2013
			HK 1121193 A1	17-04-2009
			PL 1948816 T3	31-07-2012
			PT 1948816 E	19-03-2012
			SI 1948816 T1	30-04-2012
			US 2011059435 A1	10-03-2011
			US 2012014879 A1	19-01-2012
			US 2016376645 A1	29-12-2016
			US 2020123600 A1	23-04-2020
			WO 2007050465 A2	03-05-2007
WO2018137685	A1	02-08-2018	AU 2018212272 A1	18-07-2019
			CA 3051509 A1	02-08-2018
			CN 110291212 A	27-09-2019
			EP 3574108 A1	04-12-2019
			SG 11201906397U A	27-08-2019
			TW 201840853 A	16-11-2018
			US 2018208999 A1	26-07-2018
			US 2020318204 A1	08-10-2020
			WO 2018137685 A1	02-08-2018