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SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application Number
EP 15 78 6002

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	US 2009/118622 A1 (DURKIN ANTHONY J [US] ET AL) 7 May 2009 (2009-05-07)	14,15	INV. A61B5/00
Y	* abstract *	1-12	G01N21/84
A	* paragraphs [0006] - [0154]; figures 1,2,7-11 *	13	A61B5/024 A61B5/02 A61B5/026

X	WO 2014/009859 A2 (AIMAGO S A [CH]) 16 January 2014 (2014-01-16)	14,15	G01N21/64
Y	* abstract *	1-12	
A	* page 1, line 5 - page 4, line 24 * * page 7, line 20 - page 8, line 16 * * page 10, line 14 - page 12, line 26 * * page 15, line 37 - page 18, line 32; figures 11,12 *	13	

Y	XIAOLI SUN ET AL: "Simultaneous monitoring of intracellular pH changes and hemodynamic response during cortical spreading depression by fluorescence-corrected multimodal optical imaging", NEUROIMAGE, ELSEVIER, AMSTERDAM, NL, vol. 57, no. 3, 14 May 2011 (2011-05-14), pages 873-884, XP028263794, ISSN: 1053-8119, DOI: 10.1016/J.NEUROIMAGE.2011.05.040 [retrieved on 2011-05-23]	13	
A	* abstract * * page 874, column 1, paragraph 3 - page 876, column 1, paragraph 3 * * page 881, column 1, paragraph 1 - page 882, column 2, paragraph 2; figures 1,3,5-7 *	1-12,14, 15	

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TECHNICAL FIELDS SEARCHED (IPC)
G01N
A61B

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	29 March 2018	Juárez Colera, M

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
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Y	SCHMETTERER ET AL: "How Can Blood Flow Be Measured?", SURVEY OF OPHTHALMOLOGY, SURVEY OF OPHTHALMOLOGY INC, XX, vol. 52, no. 6, 1 November 2007 (2007-11-01), pages S134-S138, XP022338691, ISSN: 0039-6257, DOI: 10.1016/J.SURVOPHTHAL.2007.08.008	13	
A	* abstract * * page 134, column 1, paragraph 2 - page 135, column 1, paragraph 2 * * page 136, column 1, paragraph 3 *	1-12,14, 15	
A	ANDREW K DUNN: "Laser Speckle Contrast Imaging of Cerebral Blood Flow", ANNALS OF BIOMEDICAL ENGINEERING, KLUWER ACADEMIC PUBLISHERS-PLENUM PUBLISHERS, NE, vol. 40, no. 2, 23 November 2011 (2011-11-23), pages 367-377, XP035016160, ISSN: 1573-9686, DOI: 10.1007/S10439-011-0469-0 * the whole document *	1-15	TECHNICAL FIELDS SEARCHED (IPC)
A	JOANNA KUR ET AL: "Cellular and physiological mechanisms underlying blood flow regulation in the retina and choroid in health and disease", PROGRESS IN RETINAL AND EYE RESEARCH, vol. 31, no. 5, 4 April 2012 (2012-04-04), pages 377-406, XP028425605, ISSN: 1350-9462, DOI: 10.1016/J.PRETEYERES.2012.04.004 [retrieved on 2012-05-03] * 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	29 March 2018	Juárez Colera, M

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EP 15 78 6002

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:

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LACK OF UNITY OF INVENTION
SHEET B

Application Number
EP 15 78 6002

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: 1-12, 14, 15

   Method for producing an image of cranial blood vessel structure and perfusion.

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2. claim: 13

   Method for identifying blood flow velocity in veins and arteries in an optical image

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ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO. EP 15 78 6002

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.

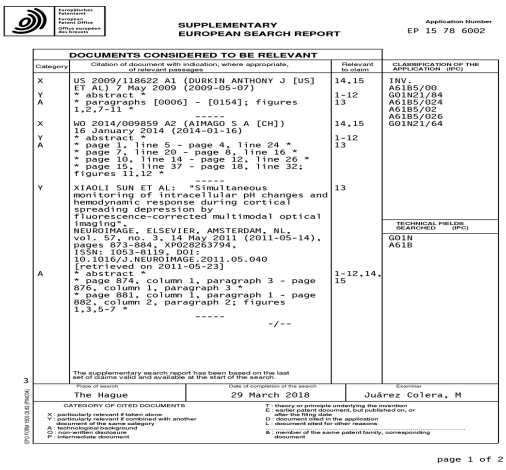
29-03-2018

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2009118622 A1	07-05-2009	NONE	
WO 2014009859 A2	16-01-2014	CA 2914780 A1	16-01-2014
		EP 2872035 A2	20-05-2015
		JP 6023883 B2	09-11-2016
		JP 6285522 B2	28-02-2018
		JP 2015527909 A	24-09-2015
		JP 2017060778 A	30-03-2017
		US 2015198797 A1	16-07-2015
		WO 2014009859 A2	16-01-2014

专利名称(译)	多模式经颅脑光学成像		
公开(公告)号	EP3136951A4	公开(公告)日	2018-05-09
申请号	EP2015786002	申请日	2015-04-30
[标]申请(专利权)人(译)	耶达研究及发展有限公司 耶路撒冷精神健康中心卫生部门		
申请(专利权)人(译)	烟台开发区研究与发展有限公司. 耶路撒冷精神卫生中心卫生部		
当前申请(专利权)人(译)	烟台开发区研究与发展有限公司. 耶路撒冷精神卫生中心卫生部		
[标]发明人	HARMELIN ALON ISRAELI DAVID KUZNETSOV YURI KALCHENKO VYACHESLAV		
发明人	HARMELIN, ALON ISRAELI, DAVID KUZNETSOV, YURI KALCHENKO, VYACHESLAV		
IPC分类号	A61B5/00		
CPC分类号	A61B5/0035 A61B5/0042 A61B5/0071 A61B5/0082 A61B5/02007 A61B5/024 A61B5/0261 A61B5/4064 A61B2576/026 G01N21/4795 G01N21/6456 G01N2201/06113 G01N2201/068		
代理机构(译)	丹麦美国律师协会		
优先权	61/986955 2014-05-01 US		
其他公开文献	EP3136951A1		
外部链接	Espacenet		

摘要(译)

一种经颅脑光学成像方法，包括获得受试者的颅血管的激光散斑（LS）图像，获得受试者的颅血管的动态荧光（DF）图像，并组合LS图像和DF图像产生组合的彩色图像，其显示颅血管的结构和沿颅血管的血液灌注。还描述了相关的装置和方法。



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Y	XIAOLI SUN ET AL: "Simultaneous monitoring of intracellular pH changes and hemodynamic response during cortical spreading depression by fluorescence-corrected multimodal optical imaging", NEUROIMAGE, ELSEVIER, AMSTERDAM, NL, vol. 57, no. 3, 14 May 2011 (2011-05-14), pages 873-884, XP028263794, ISSN: 1053-8119, DOI: 10.1016/J.NEUROIMAGE.2011.05.040 [retrieved on 2011-05-23]	13	TECHNICAL FIELDS SEARCHED (IPC) G01N A61B
A	* abstract * * page 874, column 1, paragraph 3 - page 876, column 1, paragraph 3 * * page 881, column 1, paragraph 1 - page 882, column 2, paragraph 2; figures 1,3,5-7 *	1-12,14, 15	

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