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SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application Number
EP 15 78 6030

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 A,P	US 2014/206978 A1 (ACKERMAN WILLIAM [US] ET AL) 24 July 2014 (2014-07-24) * paragraph [0084] - paragraph [0111]; figures 7-11 * -----	1-14 15	INV. A61B5/00 A61B8/08 A61B8/00 A61B5/145
A	US 2013/109950 A1 (HERZOG DONALD G [US] ET AL) 2 May 2013 (2013-05-02) * figures 3,4 * -----	1-15	
A	JP 2013 202050 A (FUJIFILM CORP) 7 October 2013 (2013-10-07) * figure 5 * -----	1-15	

TECHNICAL FIELDS SEARCHED (IPC)

A61B

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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Place of search	Date of completion of the search	Examiner
Munich	15 December 2017	Koprinarov, Ivaylo

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

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO. EP 15 78 6030

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
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15-12-2017

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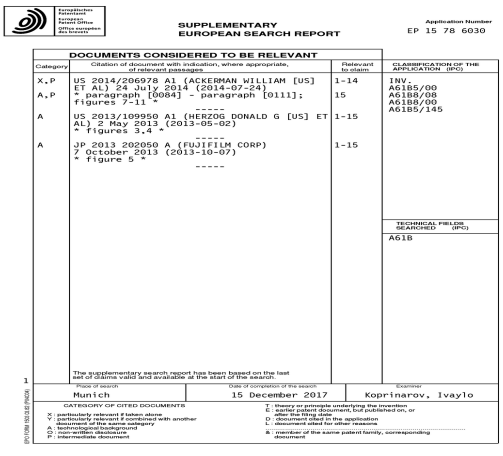
专利名称(译)	光声隔离器探头		
公开(公告)号	EP3136952A4	公开(公告)日	2018-01-24
申请号	EP2015786030	申请日	2015-05-04
[标]申请(专利权)人(译)	SENO医疗INSTR		
申请(专利权)人(译)	SENO医疗器械，INC.		
当前申请(专利权)人(译)	SENO医疗器械，INC.		
[标]发明人	ACKERMAN WILLIAM HERZOG DONALD CASAS JUSTIN		
发明人	ACKERMAN, WILLIAM HERZOG, DONALD CASAS, JUSTIN		
IPC分类号	A61B5/00 A61B8/08		
CPC分类号	A61B5/0095 A61B5/14542 A61B8/08 A61B8/0825 A61B8/4444 A61B8/463 A61B8/5261 A61B2560/0443		
审查员(译)	KOPRINAROV，IVAYLO		
优先权	14/268915 2014-05-02 US		
其他公开文献	EP3136952A1 EP3136952B1		
外部链接	Espacenet		

摘要(译)

一种光声探头，包括超声换能器阵列，声透镜和通过隔离器与换能器阵列分离的光路，以减轻来自光路的光能到达换能器阵列。隔离器可以由包括载体材料和10％至80％体积的微气泡的混合物形成。隔离器可以适于吸收，反射或散射光能并吸收对光能的光声响应。在一个实施例中，光声探头还包括光学窗口和/或漫射器，隔离器还将换能器阵列与这些部件分开。



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