Europäisches Patentamt
European Patent Office
Office européen des brevets

SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 20 90 02 30

Classification of the application (IPC):
A61B 18/14*, *A61B 18/04*, *A61B 18/12*, *A61B 18/16*, *A61B 18/18

Technical fields searched (IPC):
A61B

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X A	**OKISHIGE KAORU ET AL**: "Quick, safe, and effective maneuver to prevent phrenic nerve injury during cryoballoon ablation of atrial fibrillation" *JOURNAL OF INTERVENTIONAL CARDIAC ELECTROPHYSIOLOGY, SPRINGER NEW YORK LLC, US*, 24 May 2018 (2018-05-24), vol. 53, no. 2, DOI: 10.1007/S10840-018-0379-2, ISSN: 1383-875X, pages 233-238, XP036608381 * the whole document *	1-4, 8-10 5-7, 11
X A	**FRANCESCHI, FRÉDÉRIC; DUBUC, MARC; GUERRA, PETER G.; KHAIRY, PAUL**: "Phrenic nerve monitoring with diaphragmatic electromyography during cryoballoon ablation for atrial fibrillation: The first human application" *HEART RHYTHM, ELSEVIER, US*, 31 January 2011 (2011-01-31), vol. 8, no. 7, DOI: 10.1016/J.HRTHM.2011.01.047, ISSN: 1547-5271, pages 1068-1071, XP028235701 * the whole document *	1 2-11
A	US 2017189106 A1 (SCHULER BRIAN [US] ET AL) 06 July 2017 (2017-07-06) * the whole document *	1-11
A	US 2015359487 A1 (COULOMBE NICOLAS [CA]) 17 December 2015 (2015-12-17) * paragraphs [0009] - [0011], [0014]; figures 1, 2 * * paragraph [0051] - paragraph [0054]; figures 8-10 *	1-11
A	WO 2018212840 A1 (CRYTERION MEDICAL INC [US]) 22 November 2018 (2018-11-22) * the whole document *	1-11
A	US 2013261471 A1 (SAHA SUNIPA [US] ET AL) 03 October 2013 (2013-10-03) * paragraph [0046] - paragraph [0051]; figures 1-4 * * paragraph [0107] - paragraph [0119] *	1-11

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
Munich	08 November 2023	Lorenz, Larissa

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

Disclaimer: this document has been automatically generated using data structured in accordance with WIPO standard ST.36 from the database of search reports of the European Patent Office. For technical reasons, its content and layout may differ from that of the original publication. Only the original published information is legally binding.

EP 4 072 456 A4

© 2020 org.epo.publication.kb xsl stylesheet v1.0.1SRnfp

Europäisches Patentamt
European Patent Office
Office européen des brevets

ANNEX TO SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 20 90 02 30

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 08-11-2023
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2017189106 A1	06-07-2017	EP 3397149 A1	07-11-2018
		US 2017189106 A1	06-07-2017
		WO 2017117582 A1	06-07-2017
US 2015359487 A1	17-12-2015	CN 106659870 A	10-05-2017
		EP 3154619 A1	19-04-2017
		US 2015359487 A1	17-12-2015
		WO 2015188250 A1	17-12-2015
WO 2018212840 A1	22-11-2018	US 2020077938 A1	12-03-2020
		WO 2018212840 A1	22-11-2018
US 2013261471 A1	03-10-2013	US 2013261471 A1	03-10-2013
		US 2019365261 A1	05-12-2019

EP 4 072 456 A4

© 2020 org.epo.publication.kb xsl stylesheet v1.0.1SRnfp

Disclaimer: this document has been automatically generated using data structured in accordance with WIPO standard ST.36 from the database of search reports of the European Patent Office. For technical reasons, its content and layout may differ from that of the original publication. Only the original published information is legally binding.