# 506938550 10/25/2021 PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6985388

SUBMISSION TYPE:		NEW ASSIGNMENT	
NATURE OF CONVEYAN	ICE:	SECURITY INTEREST	
CONVEYING PARTY DA			
		Name	Execution Date
PI-CARDIA LTD.			10/21/2021
RECEIVING PARTY DA	ГА		
Name:	KREOS	CAPITAL VI (EXPERT FUND) L.P	).
Street Address:	47 ESPL	ANADE	
City:	ST HELI	ER	
State/Country:	JERSEY		
PROPERTY NUMBERS	Total: 44		
Property Type		Number	
Application Number:		3055507	
Application Number:	1:	3514090	
Application Number:	1	4362405	
Application Number:	1	4390836	
Application Number:	1	4759228	
Application Number:	1	4897652	
Application Number:	1:	5418919	
Application Number:	1	5723379	
Application Number:	1:	5766830	
Application Number:	1	6087649	
Application Number:	1	6341924	
Application Number:	1	6852694	
Application Number:	1	6894999	
Application Number:	1	7464890	
Application Number:	6	1083934	
Application Number:	6	1096061	
Application Number:		1162343	
Application Number:	6	1267029	
••			
Application Number:		1356617	
	6 6	1356617 1566766 1621005	

Property Type	Number
Application Number:	61639929
Application Number:	61749440
Application Number:	61835596
Application Number:	62238250
Application Number:	62315810
Application Number:	62412960
Application Number:	62849919
Application Number:	62870068
Application Number:	63048664
Application Number:	63220588
Application Number:	63231826
PCT Number:	US2009051784
PCT Number:	US2010058810
PCT Number:	US2012067812
PCT Number:	US2013035346
PCT Number:	US2014010265
PCT Number:	US2014040991
PCT Number:	IB2016055993
PCT Number:	IB2017051798
PCT Number:	IB2017056657
PCT Number:	IB2018057667
PCT Number:	IB2021056025
PCT Number:	IB2020054729

### **CORRESPONDENCE DATA**

#### Fax Number:

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Email:aaron.lewin@jmbdavis.comCorrespondent Name:JMB DAVIS BEN-DAVIDAddress Line 1:8 HARTOM STREETAddress Line 2:PO BOX 45087Address Line 4:JERUSALEM, ISRAEL

ATTORNEY DOCKET NUMBER:	96088/60.995
NAME OF SUBMITTER:	AARON LEWIN
SIGNATURE:	/Aaron Lewin/
DATE SIGNED:	10/25/2021

### **Total Attachments: 16**

source=Pi-Cardia - US IP Security Agreement - SIGNED#page1.tif

#### U.S. INTELLECTUAL PROPERTY SECURITY AGREEMENT

This U.S. INTELLECTUAL PROPERTY SECURITY AGREEMENT (the "**IP Security Agreement**") is entered as of October 21, 2021 is made by and between (i) Pi-Cardia Ltd. (the "**Grantor**") a company incorporated in Israel under registered number 514181379 whose registered office is at 5 David Fikes Street, Rehovot, 7632805, Israel, and (ii) Kreos Capital VI (Expert Fund) LP ("**Kreos**"), a limited partnership incorporated in Jersey whose registered office is at 47 Esplanade, St Helier, Jersey.

WHEREAS, the Grantor and Kreos have entered into that certain agreement for the provision of a loan facility of up to US\$21,000,000 dated on or about the date hereof (the "Loan Agreement"); and

WHEREAS, under the terms of the Loan Agreement, Grantor has agreed, among other things, to grant security interest in the intellectual property of the Grantor to Kreos, and the Grantor has agreed to execute this IP Security Agreement for recording with the U.S. Patent and Trademark Office on any intellectual property owned by it throughout the term of this IP Security Agreement.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, and intending to be legally bound hereby, the parties agree as follows:

Section 1. Grant of Security. Subject to the provisions of the Loan Agreement, Grantor hereby grants to Kreos a security interest, in and to all right, title and interest to (i) the registered United States patents and pending applications as set forth in Schedule A hereto together with all reissues, divisions, continuations, continuations-in-part, extensions and reexaminations thereof, and all rights therein provided by international treaties or conventions (the "Patents"), (ii) the registered trademarks, service marks, trade names and domain names, and applications therefore as set forth in Schedule A hereto together with all goodwill associated with such trademarks and service marks and all rights therein provided by international treaties or conventions (the "Trademarks"), and (iii) all copyrights and registrations and applications therefore set forth in Schedule A (the "Copyrights"), all as currently owned by the Grantor or which shall be owned in the future by the Grantor subject to Section 7 below (collectively, the "Collateral"). Schedule A shall be updated pursuant to the provisions of Section 3.9 of the Loan Agreement upon the application for, or acquisition of, any new Patents or Trademarks in the United States by the Grantor, and the Grantor shall file amendments to Schedule A to that effect, all pursuant and subject to said subsection of the Loan Agreement. Notwithstanding anything to the contrary in this IP Security Agreement, it is hereby clarified that with respect to the intellectual property rights developed with funding provided by the Israel Innovation Authority (the "Funded IP" and the "IIA", respectively), the security interest herein shall be subject to the consent of the IIA, attached hereto as Schedule B (the "IIA Consent"), and that the sale, assignment or another transfer of the Funded IP may be subject to the IIA Consent and the provisions of applicable grant certificates or undertaking issued by the IIA and applicable Israeli laws and regulations and any payment obligation imposed thereunder. In connection therewith, Kreos provided to the Grantor an undertaking to the IIA in the form attached hereto as Schedule C.

Notwithstanding the grant of the security interest set forth in this Section 1 or in the Loan Agreement, the Collateral shall not include (i) any contract, instrument, property right or agreement to which the Grantor is a party or any of its rights or interests thereunder, as of the date of this IP Security Agreement (collectively, the "**Grantor Rights**") if and for so long as the grant to Kreos of the security interest therein shall constitute or result in a breach pursuant to the terms of, or a default under, any such contract; it being clarified that any and all proceeds actually received by the Grantor pursuant to or in connection with such Grantor Rights to be part of the Collateral, except if otherwise expressly excluded herein; (ii) any asset, the granting of a security interest in which would be void or illegal under any applicable governmental law, rule or regulation; and (iii) any right, title, interest or asset of the Grantor that

is disposed of by the Grantor in compliance with the terms of this A IP Security Agreement or the Loan Agreement.

Section 2. <u>Security for Obligations</u>. The grant of a security interest in the Collateral by Grantor to Kreos under this IP Security Agreement secures the performance of all obligations and the payment of all money and liabilities owed or incurred by the Grantor to Kreos now or hereafter existing under or in respect of the Loan Agreement, as may be amended from time to time (excluding for the avoidance of doubt liabilities related to the Conversion Shares (once issued), Warrant Instrument and/or any shares issuable thereunder) (the "**Secured Obligations**").

Section 3. <u>Recordation</u>. Grantor authorizes and requests that the Commissioner of Patents and Trademarks record this IP Security Agreement.

Section 4. <u>Right to Request Information</u>. Kreos shall have the right to request, and Grantor shall promptly provide upon such request, information reasonably required in order to confirm that Schedule A is updated.

Section 5. <u>Grants, Rights and Remedies</u>. This IP Security Agreement has been entered into in conjunction with the provisions of the Loan Agreement. The Grantor does hereby acknowledge and confirm that the grant of the security interest hereunder to, and the rights and remedies of Kreos with respect to the Collateral are more fully set forth in the Loan Agreement and the debentures (Fixed Charge and Floating Charge – as defined therein) annexed thereto, and in the event of any contradiction between this IP Security Agreement and the Loan Agreement or any document annexed thereto, the provisions of this IP Security Agreement will prevail.

Section 6. <u>Governing Law; Forum for Dispute Resolution</u>. This IP Security Agreement shall be governed by and construed according to the laws of the State of Israel, without regard to the conflict of laws provisions thereof. Any dispute arising under or in relation to this IP Security Agreement shall be resolved in the competent court for the Tel Aviv-Jaffa district, and each of the parties hereby submits exclusively and irrevocably to the jurisdiction of such court.

Section 7. <u>Termination</u>. This IP Security Agreement and the security interest granted hereunder to Kreos shall terminate and be of no force upon satisfaction in full of the Secured Obligations Upon termination of this IP Security Agreement and the security interest granted to Kreos hereunder, Kreos shall execute all documents reasonably necessary to remove the security interest granted by Grantor hereunder and take any action reasonably necessary to remove the security interest granted by Grantor hereunder, including without limitation, execute all documents reasonably necessary for the filing of a Termination Statement with the USPTO for the affected Patents and Trademarks.

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IN WITNESS WHEREOF, Grantor and Kreos have caused this IP Security Agreement to be duly executed and delivered by their officers thereunto duly authorized as of the date first above written.

PI-CARDIA LTD. By:\_ Name: Title: Executive Siverti

KREOS CAPITAL VI (EXPERT FUND) LP

Ву:\_\_\_\_\_

Name:\_\_\_\_\_

Title:

IN WITNESS WHEREOF, Grantor and Kreos have caused this IP Security Agreement to be duly executed and delivered by their officers thereunto duly authorized as of the date first above written.

PI-CARDIA LTD.

By:

Name:

Title: \_\_\_\_\_

KREOS CAPITAL VI (EXPERT FUND) LP

By:	Mark Collins
Name:	Mark Col Tins

Title: \_\_\_\_\_ Director

## SCHEDULE A



Beit Harof'im 18 Menuha VeNahala Street, Room 27 Rehovot 76209 Israel



Tel: 972-8-9495334 ... Fax. 972-8-9495323 בקס. E-mail: dekelltd@netvision.net.il



בית הרופאים מנוחה ונתלה 18, חדר 27 רחובות 76209

30 September 2021

PI-CARDIA LTD. 10 Plaut Street Rehovot 7670609

Re: Patent Status

Dear Sirs,

The following pages provide the current status of the patent applications filed on behalf of Pi-Cardia Ltd.

Best regards, Sand He. David Klein US Patent Agent 41118 Dekel Patent Ltd.

F	FRACTURING CALCIFICATIONS IN HEART VALVES			
	Our l	Ref 1926GOL		
	Assigned to	o Pi-R-Squared	Ltd.	
Country	Application No.	Filing Date	Grant	Last Action
US	61/083934	27 July 2008		
US	61/096061	11 Sep 2008		
US	61/162343	23 Mar 2009		
РСТ	PCT/US2009/051784	27 July 2009		
US	13/055507	24 Jan 2011	9717513	
			1 Aug 2017	
Japan	2011-520248	27 July 2009	5588978	
_		-	granted	
			10 Sept	
			2014	
Europe	09802244.5	27 July 2009	2326264	Validated in
		-	15 Nov	Germany, France, UK, Spain, Italy,
			2017	Ireland, Netherlands,
				Switzerland

Note: There were 2 other provisionals 61/056088 (filed 27 May 2008) and 61/061626 (filed 15 June 2008) which were abandoned and not pursued in further filings. Note: In all countries except US the official filing date is the PCT filing date

-	FRACTURING CALCIF	ICATIONS IN I	HEART VALVE	ES
	Our l	Ref 2038GOL		
	Assigned to	o Pi-R-Squared	Ltd.	
Country	Application No.	Filing Date	Grant	Last Action
US	61/267029	5 Dec 2009		
US	61/356617	20 Jun 2010		
РСТ	PCT/US2010/058810	3 Dec 2010		
US	13/514090	5 June 2012	9554816	
			31 January	
			2017	
US	15/418919	30 Jan 2017		Abandoned for
				continuation
LIC	17/464000	2.0 2021		17/464890
US	17/464890	2 Sep 2021		Pending
Europe	10803420.8	3 Dec 2010	2506781	Validated in Germany, France,
			21 March	UK, Italy, Ireland,
			2018	Netherlands,
~1.				Switzerland
China	201080062697.5	3 Dec 2010	102791207	
			Granted 9	
			Sept 2015	
India	5858/DELNP/2012	3 Dec 2010	350924	
			Granted 5	
			Nov 2020	

F	FRACTURING CALCIFICATIONS IN HEART VALVES					
	Our Ref 2133GOL					
	Assigned	to Pi-R-Squared	Ltd.			
Country	Application No.	Filing Date	Grant	Last Action		
US	61/566766	5 Dec 2011				
РСТ	PCT/US12/67812	5 Dec 2012				
US	14/362405	3 Jun 2014	10143452			
			4 Dec 2018			
Europe	12823063.8	5 Dec 2012	2787902	Validated in Germany,		
			1 Oct 2018	France, UK, Italy, Ireland, Netherlands,		
				Switzerland		
China	201280059535.5	5 Dec 2012	104023656			
			17 January			
			2017			
India	4325/DELNP/2014	5 Dec 2012	363726			
			31 Mar			
			2021			
Japan	2014-544996	5 Dec 2012	6210236			
			11 Oct			
			2017			

PEI	PERCUTANEOUS GUIDANCE AND PROTECTION SLEEVE					
	Our Ref 2160GOL					
	EMBOLI PROTECT	ON SLEEVE C	<b>OVER CATHETE</b>	ER		
	Ou	r Ref 2171GOL	,			
	Assigned	l to Pi-R-Square	ed Ltd.			
Country	Application No.	Filing Date	Grant	Last Action		
US	61/621005	6 Apr 2012				
US	61/639929	30 Apr 2012				
РСТ	PCT/US13/35346	5 Apr 2013		Combines 2160		
				+ 2171		
US	14/390836	6 Oct 2014	9895216			
			20 Feb 2018			
Europe	13724921.5	5 Apr 2013	2833825	Validated in		
			30 Nov 2018	Germany, France, UK, Italy, Ireland,		
				Netherlands		
China	2013800297810	5 Apr 2013	CN104334118			
		_	January 2017			
			, i i i i i i i i i i i i i i i i i i i			

STABILIZER	STABILIZER ASSEMBLY FOR FRACTURING CALCIFICATIONS IN HEART				
		VALVES			
	Our	Ref 2256GOL			
	Assigne	d to Pi-Cardia L	td.		
Country	Application No.	Filing Date	Grant	Last Action	
US	61/749440	7 Jan 2013			
РСТ	PCT/US14/010265	5 Jan 2014			
US	14/759228	5 July 2015	10143481		
		-	4 Dec 2018		
Europe	14706350.7	5 Jan 2014	2941210		
_			16 Nov		
			2016		
China	201480004122.6	5 Jan 2014	105050513	Validated in	
			20 June	Netherlands,	
			2017	Ireland, France,	
			2017	Germany, Italy, UK	
India	5948/DELNP/2015	5 Jan 2014		Pending	
Japan	2015-551796	5 Jan 2014	6270872		
			12 Jan 2018		

	PERCUTANEOUS EMBOLI PROTECTION SLEEVE				
	Our	Ref 2309GOL			
	Assigne	d to Pi-Cardia L	td.		
Country	Application No.	Filing Date	Grant	Last Action	
US	61/835596	16 Jun 2013			
РСТ	PCT/US14/40991	5 Jun 2014			
US	14/897652	12 Dec 2015		Abandoned	
China	201480034294.8	5 Jun 2014	105451684		
			19 Apr		
			2017		
Europe	14737082.9	5 Jun 2014	3010442	Validated in France,	
			7 Dec 2016	UK, Ireland,	
				Netherlands, Germany, Italy	
India	11369/DELNP/2015	5 Jun 2014		Pending	
Japan	2016-519545	5 Jun 2014	6403763		
			10 <b>Oct</b>		
			2018		

IMPACTO	IMPACTOR FOR FRACTURING CALCIFICATIONS IN HEART VALVES				
	Our Ref 2481GOL				
	Assigne	d to Pi-Cardia Lt	td.		
Country	Application No.	Filing Date	Grant	Last Action	
US	62/238250	7 Oct 2015			
РСТ	PCT/IB2016/055993	6 Oct 2016			
US	15/766830	9 Apr 2018	10675044		
		_	9 June		
			2020		
US	16/894999	8 Jun 2020		Pending	
Europe	16795412.2	6 Oct 2016	3359063 17 Jun 2020	Validated in Switzerland, Germany, France, UK, Italy, Netherlands, Ireland	

REN	REMODELING OF CALCIFIED AORTIC VALVE LEAFLETS					
	Our Ref 2534GOL					
	Assigne	d to Pi-Cardia Li	td.			
Country	Application No.	Filing Date	Grant	Last Action		
US	62/315810	31 Mar 2016				
РСТ	PCT/IB2017/051798	29 Mar 2017				
US	16/087649	23 Sep 2018	10980553			
		_	20 Apr			
			2021			
Europe	17718608.7	29 Mar 2017	3435891	Validated in Switzerland,		
			13 Nov	Germany, France,		
			2019	UK, Italy,		
				Netherlands, Ireland		
China	201780026430.2	29 Mar 2017	109069168			
			9 Apr 2021			
Japan	2018-550842	29 Mar 2017	6930997			
			1 Sep 2021			

CATHETER BASED DEVICE FOR TREATMENT OF CALCIFIED VALVE						
	LEAFLET					
	Our Ref 2576GOL					
	Assigned to Pi-Cardia Ltd.					
Country	Application No.	Filing Date	Grant	Last Action		
US	62/412960	26 Oct 2016				
РСТ	PCT PCT/IB2017/056657 26 Oct 2017					
US	16/341924	15 April 2019		Pending		

IMPACTOR AND STABILIZER FOR FRACTURING CALCIFICATIONS IN						
	HEART VALVES					
	Our	Ref 2651GOL				
	Assigned	d to Pi-Cardia Lt	d.			
Country	Application No.	Filing Date	Grant	Last Action		
US	15/723379	3 Oct 2017	10624658			
			21 Apr			
			2020			
РСТ	PCT/IB2018/057667	3 Oct 2018				
US	16/852694	20 Apr 2020		Pending		
	Continuation of	-				
	15/723379					
Europe	18801028.4	3 Oct 2018		Pending		
China	201880064205.2	3 Oct 2018		Pending		
Japan	2020-517864	3 Oct 2018		Pending		
India	202017018688	3 Oct 2018		Pending		

IMPACTOR AND STABILIZER FOR FRACTURING CALCIFICATIONS IN					
	HEA	ART VALVES			
	Our Ref 2891GOL				
	Assigned to Pi-Cardia Ltd.				
Country	Application No.	Filing Date	Grant	Last Action	
US	63/048664	7 July 2020			
РСТ	PCT/IB2021/056025	6 July 2021		National phase 7	
		-		Jan 2023	

TRANS	TRANSCATHETER VALVE LACERATION DEVICE AND METHOD					
	Our Ref 2796GOL					
	Assigned to Pi-Cardia Ltd.					
Country	Application No.	Filing Date	Grant	Last Action		
US	62/849919	19 May 2019				
US	62/870068	3 July 2019				
РСТ	PCT/IB2020/054729	19 May 2020		National phase		
				19 Nov 2021		

# **SHORT - CUT**

TRANSCATHETER MITRAL VALVE LACERATION DEVICE AND METHOD						
	Our Ref 2975GOL					
	Assigned to Pi-Cardia Ltd.					
Country	Application No.	Filing Date	Grant	Last Action		
US	63/220588	12 Jul 2021		Continuation-in- part of 2796 and to be filed only in US to cover mitral valve procedure		

TRANSCATHETER DEVICE FOR SCORING CALCIFICATIONS AND FOR CUTTING VALVE TISSUE						
	Our Ref 2976GOL					
Assigned to Pi-Cardia Ltd.						
Country	Application No.	Filing Date	Grant	Last Action		
US	63/231826	11 Aug 2021		New device		
				configuration		

**RECORDED: 10/25/2021**