502134420 11/19/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Thao Ngo	11/16/2012
Kathleen Kresge	11/14/2012
Michael Kane	11/14/2012
Scott Patrick Simon	11/17/2012

RECEIVING PARTY DATA

Name:	PACESETTER, INC.
Street Address:	15900 VALLEY VIEW CT.
City:	SYLMAR
State/Country:	CALIFORNIA
Postal Code:	91392-9221

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13681273

CORRESPONDENCE DATA

Fax Number: 8183624795

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 818-362-6822

Email: epineiro@sjm.com

Correspondent Name: PACESETTER, INC.

Address Line 1: 15900 VALLEY VIEW CT.

Address Line 4: SYLMAR, CALIFORNIA 91392-9221

ATTORNEY DOCKET NUMBER:	A12P1051

NAME OF SUBMITTER: Estella Pineiro

Total Attachments: 4

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> PATENT REEL: 029324 FRAME: 0319

\$40.00 136812

FOR GOOD AND VALUABLE CONSIDERATION, we

1) Thao Ngo 9109 Edgewood Circle Shakopee, MN 55379

- 2) Kathleen Kresge 4405 Washburn Ave. S Minneapolis, MN 55410
- 3) Michael Kane N33 W29204 Millridge Road Pewaukee, WI 53072
- 4) Scott Patrick Simon 2225 Tree Lane Billings, MT 59102
- 1. HEREBY sell, assign, and transfer to Pacesetter, Inc., herein the "Assignee," the entire right, title and interest in and to any and all improvements which are disclosed in the application for United States Letters Patent, which has been executed by the undersigned concurrently herewith, and is entitled

SYSTEMS AND METHODS FOR USING PULMONARY ARTERY PRESSURE FROM AN IMPLANTABLE SENSOR TO DETECT MITRAL REGURGITATION AND OPTIMIZE PACING DELAYS

being identified in Pacesetter records as case number:

A12P1051

and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said improvements; and in and to all original and reissued patents which have been or shall be filed in the United States and all foreign countries on said improvements;

- 2. AGREE that Assignee may apply for and receive Letters Patent for said improvements in its own name, and that, when requested, without charge to but at the expense of said Assignee, its successors, assigns, and legal representatives who carry out in good faith the intent and purpose of this agreement, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns, and representatives, all facts known to the undersigned relating to said improvements and the history thereof; and generally do everything possible which said Assignee, its successors, assigns, or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patents and all natents on said improvements, in said Assignee, its successors, assigns, and legal representatives; and
- 3. COVENANT with said Assignee, its successor, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Date: 16 Nov 2012	Signature:	hacker	
		Thao Ngo	-
Date:	Signature:		
	Annual Marie Company of the Company	Kathleen Kresge	
Date:	Signature:		
	· ·	Michael Kane	
Date:	Signature:		
***************************************	-	Scott Patrick Simon	

Page 1 of 1

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- 2. AGREE that Assignee may apply for and receive Letters Patent for said improvements in its own name, and that, when requested, without charge to but at the expense of said Assignee, its successors, assigns, and legal representatives who carry out in good faith the intent and purpose of this agreement, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns, and representatives, all facts known to the undersigned relating to said improvements and the history thereof, and generally do everything possible which said Assignee, its successors, assigns, or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns, and legal representatives; and
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Date:	Signature;	Thao Ngo	
Date: 11/14/2012	Signature: Kai	the Kusp	
		Kathleen Kylesge	
Date:	Signature:		
		Michael Kane	
Date;	Signature:		
		Scott Patrick Simon	

Page 1 of 1

PATENT

REEL: 029324 FRAME: 0321

FOR GOOD AND VALUABLE CONSIDERATION, we

1) Thao Ngo 9109 Edgewood Circle Shakopee, MN 55379

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- 2. AGREE that Assignee may apply for and receive Letters Patent for said improvements in its own name, and that, when requested, without charge to but at the expense of said Assignee, its successors, assigns, and legal representatives who carry out in good faith the intent and purpose of this agreement, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns, and representatives, all facts known to the undersigned relating to said improvements and the history thereof; and generally do everything possible which said Assignee, its successors, assigns, or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns, and legal representatives; and
- 3. COVENANT with said Assignee, its successor, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Date:	Signature:
	Thao Ngo
Date:	Signature:
	Kathleen Kresge
Date: 11-14-12	Signature Makel R. Page
	Michael Kane
Date:	Signature:
	Scott Patrick Simon

PATENT REEL: 029324 FRAME: 0322

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Date:	Signature:		
	Thao Ngo		
Date:	Signature:		
	Kathleen Kresge		
Date:	Signature:		
	/ Michael Kane		
Date: 11-17-12	Signature: LSA Timor		
Date:			
	Scott Patrick Simon		

Page 1 of 1