

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4657459

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	QING TAN	10/13/2017
	GARY A FREEMAN	10/17/2017
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	ZOLL CIRCULATION, INC.	
<b>Street Address:</b>	2000 RINGWOOD AVENUE	
<b>City:</b>	SAN JOSE	
<b>State/Country:</b>	CALIFORNIA	
<b>Postal Code:</b>	95131	
<b>PROPERTY NUMBERS Total: 3</b>		
	<b>Property Type</b>	<b>Number</b>
	Application Number:	61949822
	Application Number:	14639816
	PCT Number:	US2015018998
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>	(949)450-1764	
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<b>Phone:</b>	949-450-1750	
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<b>Correspondent Name:</b>	ROBERT D. BUYAN	
<b>Address Line 1:</b>	23461 SOUTH POINTE DRIVE, SUITE 120	
<b>Address Line 4:</b>	LAGUNA HILLS, CALIFORNIA 92653	
<b>ATTORNEY DOCKET NUMBER:</b>	ZOLCR-018	
<b>NAME OF SUBMITTER:</b>	ROBERT D. BUYAN	
<b>SIGNATURE:</b>	/Robert D. Buyan/	
<b>DATE SIGNED:</b>	10/25/2017	
<b>Total Attachments: 4</b>		
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ASSIGNMENT

For valuable consideration, the receipt of which we acknowledge, and intending to be bound legally, we, Qing Tan of Somerville, MA and Gary A. Freeman of Waltham, MA, each individually assign to ZOLL CIRCULATION, INC., a corporation formed under the laws of Delaware and having a principal place of business at 2000 Ringwood Avenue, San Jose, CA 95131, and its successors, transferees, and assigns (collectively the "Assignee"), all of our individual and joint right, title, and interest throughout the world in the patent application titled "ENDOVASCULAR HEAT EXCHANGE SYSTEMS AND METHODS WITH BLOOD FLOW MONITORING AND NOTIFICATION FUNCTIONS," filed in the United States Patent and Trademark Office on March 7, 2014 as provisional application 61/949,822 and on March 5, 2015, as application 14/639,816, and filed in the PCT International Bureau on March 5, 2015 as application US2015/018998 (the "Application"), including without limitation: (a) the subject matter of the Application (the "Subject Matter"); (b) the Application and all other applications that may be made for, and all patents, utility models, design registrations, creative works, and other rights of exclusion and inventors' certificates for any of the Subject Matter, and all applications claiming the benefit of or priority to the Application (including without limitation divisionals, continuations, continuations-in-part, reexaminations, reissues, supplemental examinations, continued prosecution applications, post-grant reviews, *inter partes* reviews, renewals, and extensions), and all applications to which the Application claims priority or of which the Application claims the benefit (including without limitation provisional applications), in every country or region (collectively the "Applications and Granted Rights"); (c) the right to claim priority based on and the benefit of the filing date of any of the Applications and Granted Rights under the Paris Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other applicable treaties or conventions, and (d) the right to pursue, collect, and retain in the Assignee's name or otherwise, damages and any other remedies arising from any past, present, or future infringement of the Subject Matter, the Applications and Granted Rights, and any other rights assigned by this Assignment.

We authorize the Assignee to apply for and pursue protection for any or all of the Subject Matter, the Applications and Granted Rights, and any other rights assigned by this Assignment in all countries, regions, and territories of the world, in our names or in the Assignee's name.

We represent and warrant that we have the right and power to make this Assignment and

that we have not made and will not make any other assignment that conflicts with this Assignment. We authorize the Assignee, its successors and assigns, and its representatives, to insert in or on this Assignment the filing date and application number of the Application or of any Applications and Granted Rights, including any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office or foreign equivalent thereof for recordation of this Assignment.

We will communicate to the Assignee (or at the request of the Assignee to other parties) all known facts in any form relating to the Subject Matter, will execute and provide all oaths and declarations, statements, testimony, assignments, powers of attorney, applications, and documents, and will perform all other lawful acts necessary or desirable to secure fully to the Assignee the rights, titles, and interests assigned by this Assignment.

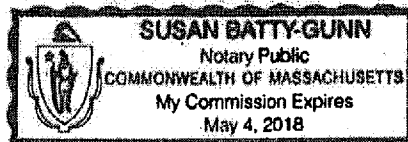
Q Tan  
Qing Tan


Date: 10/13/2017

Commonwealth of Massachusetts )  
County of Middlesex ) ss.:

On the 13th day of October in the year 2017 before me, the undersigned, a Notary Public in and for said State, personally appeared Qing Tan personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

Susan Batty-Gunn  
Notary Public

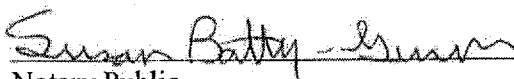


  
\_\_\_\_\_  
Gary A. Freeman

Date: 10-17-17

Commonwealth of Massachusetts    )  
  ) ss.:  
County of                                        )

On the 17<sup>th</sup> day of October in the year 2017 before me, the undersigned,  
a Notary Public in and for said State, personally appeared Gary Freeman,  
personally known to me or proved to me on the basis of satisfactory evidence to be the  
individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me  
that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their  
signature(s) on the instrument, the individual(s), or the person upon behalf of which the  
individual(s) acted, executed the instrument.

  
\_\_\_\_\_  
Notary Public

