506021532 04/20/2020

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Richard Heller	04/03/2015
Chen Yeong-Jer	04/10/2020

RECEIVING PARTY DATA

Name:	OLD DOMINION UNIVERSITY RESEARCH FOUNDATION	
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Internal Address:	SUITE 204	
City:	NORFOLK	
State/Country:	VIRGINIA	
Postal Code:	23508	

PROPERTY NUMBERS Total: 2

Property Type	Number
Application Number:	15311130
Application Number:	61969386

CORRESPONDENCE DATA

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NAME OF SUBMITTER:	ARLENE F. YATES
SIGNATURE:	/Arlene F. Yates/
DATE SIGNED:	04/20/2020

Total Attachments: 4

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PATENT 506021532 REEL: 052438 FRAME: 0337

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PATENT REEL: 052438 FRAME: 0338

ASSIGNMENT

WHEREAS, we, the below-named inventors whose residences are as stated below, have invented certain new and useful improvements in **EXPANDABLE CATHETER DEVICES ELECTRODE ARRAY**, for which International Application No. PCT/US15/22145 was filed on March 24, 2015, which claims priority to U.S. Provisional Patent Application No.: 61/969,386 was filed on March 24, 2014 and;

WHEREAS, OLD DOMINION UNIVERSITY RESEARCH FOUNDATION existing by virtue of the laws of the Commonwealth of Virginia, and having an office at 4111 Monarch Way, Ste. 203, Norfolk, Virginia 23508, (hereinafter called ASSIGNEE), is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent which may be granted therefor in the United States and in any and all foreign countries.

NOW THEREFORE, be it known that, for good and valuable consideration of One Dollar (\$1.00), and other good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell, assign, transfer, and set over to the ASSIGNEE, and its lawful successors and assigns, my entire right, title, and interest in and to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries; and all rights to claim priority on the basis of such applications, and all divisions, reissues, reexaminations, continuations, extensions, renewals, and reissues thereof.

FURTHER, I agree that I will communicate to said ASSIGNEE, or its representatives, any facts known to me respecting said invention; testify in any legal proceedings; sign all lawful papers; execute all divisional, continuation, substitution, renewal, and reissue applications; execute all necessary assignment papers to cause any and all said Letters Patent to be issued to said ASSIGNEE; make all rightful oaths; and generally do everything possible to aid the said ASSIGNEE, its successors and assigns, to obtain and enforce proper protection for said invention in the United States and in any and all foreign countries.

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IN TESTIMONY WHEREOF, I have hereunto set my hand this day of
Signed: Richard Heller 1314 Cloncurry Road Norfolk, VA 23505
Commonwealth of Virginia))ss. City of Norfolk On this day of, 2015, personally appeared before me the above named Richard Heller, to me known to be the person described in the foregoing instrument, who executed the foregoing instrument, and who acknowledged the same to be his free act and deed in and for the purposes set forth in said instrument.
(SEAL) SEAL COMMISSION EXCHANGES 9/30/2018 ALTH Offmannian

ASSIGNMENT

I, CHEN YEONG-JER, jointly with RICHARD HELLER, have invented certain new and useful inventions and improvements entitled EXPANDABLE CATHETER DEVICES

ELECTRODE ARRAY, for which United States Patent Application Serial No. 15/311,130 was filed on November 14, 2016, International Application No. PCT/US2015/022145 was filed on March 24, 2015, and U.S. Provisional Patent Application No.: 61/969,386 was filed on March 24, 2014 (collectively, the "Application").

For valuable consideration, the receipt and sufficiency of which is hereby acknowledged, and intending to be bound legally, I hereby assign, transfer, convey, and sell, and have assigned, transferred, conveyed, and sold, to **OLD DOMINION UNIVERSITY RESEARCH FOUNDATION**, formed under the laws of Virginia and having a principal place of business at 4111 Monarch Way, Suite 204, Norfolk, VA 23508, and its successors, transferees, and assignees (collectively the "Assignee"), my entire right, title, and interest throughout the world in the invention(s) (the "Subject Matter") described, shown, or claimed in the Application.

This Assignment assigns, in addition to the Subject Matter of the Application, (a) the Application and all other applications that may be made for, and all patents, utility models, design registrations, and other rights of exclusion and inventors' certificates for, any of the Subject Matter (collectively the "Applications and Granted Rights") in every country or region and under every treaty or convention, (b) the right to claim priority based on and the benefit of the filing date of any of the Applications and Granted Rights under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other applicable treaties or conventions, and (c) 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.

I 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.

I represent and warrant that I have the right and power to make this Assignment and that I have not made and will not make any other assignment that conflicts with this Assignment.

PATENT REEL: 052438 FRAME: 0341 I agree to cooperate with the Assignee to enable the Assignee to enjoy to the fullest extent the right, title and interest herein conveyed and I 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.

Date: April 10, 2020

Chen Leong-Jer