504240341 02/22/2017

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:		NEW ASSIGNMENT	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT	
CONVEYING PARTY	ΔΑΤΑ			
		Name	Execution Date	
DUKHO DO			08/18/2016	
DONGKYUN KANG			08/29/2016	
GUILLERMO J. TEARN	NEY		09/23/2016	
RECEIVING PARTY D	ΔΤΔ			
Name:		THE GENERAL HOSPITAL CORPORATION		
Street Address:		FRUIT STREET		
City:	BOSTC	NC		
State/Country:	MASSA	ASSACHUSETTS		
Postal Code:	02114	02114		
PROPERTY NUMBERS Total: 1 Property Type		Number		
Application Number:		15180722	—	
CORRESPONDENCE	DATA			
Fax Number:		(949)932-3560		
		the e-mail address first; if that is (; if that is unsuccessful, it will be ;		
u		949-932-3329		
		IPDocketing@cusa.canon.com	•	
			ON U.S.A. INC. INTELLECTUAL PROPERTY	
		15975 ALTON PARKWAY		
Address Line 4:		IRVINE, CALIFORNIA 92618-3731		
ATTORNEY DOCKET N	IUMBER:	2901-19410		
		2901-19410 JOCELYN LIN		
NAME OF SUBMITTER				
NAME OF SUBMITTER SIGNATURE:		JOCELYN LIN		
NAME OF SUBMITTER SIGNATURE: DATE SIGNED:		JOCELYN LIN /Jocelyn Lin/		
NAME OF SUBMITTER SIGNATURE: DATE SIGNED: Total Attachments: 6	:	JOCELYN LIN /Jocelyn Lin/ 02/22/2017		
ATTORNEY DOCKET N NAME OF SUBMITTER SIGNATURE: DATE SIGNED: Total Attachments: 6 source=2901-19410_Ast source=2901-19410_Ast	signment_	JOCELYN LIN /Jocelyn Lin/ 02/22/2017 Do_Signed#page1.tif Do_Signed#page2.tif		
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ASSIGNMENT

FOR VALUE RECEIVED, I

NAME Dukho Do

address c/o The General Hospital Corporation 55 Fruit Street Boston, MA 20114

Citizenship: Republic of Korea

hereby sell, assign, transfer and convey unto

The General Hospital Corporation

a Corporation of Massachusetts, having a place of business at 55 Fruit Street, Boston, MA 02114,

its successors, assigns and legal representatives (hereinafter called the "Assignee"), the entire right, title, and interest, for all countries, in and to certain inventions relating to

SPECTRALLY ENCODED ENDOSCOPIC PROBE HAVING A FIXED FIBER (atty. docket no. 2901-19410)

and described in an application for Letters Patent of the United States which was filed on June 13, 2016 and accorded Serial No. 15/180722.

and to said application, and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted, thereon, and all reissues and extensions thereof, and all applications for Letters Patent or other grants of protection of proprietary rights including, but not limited to, inventor's certificate, utility model, utility certificate, patent of importation, registration of patent and industrial design registration which may be filed, and which may be granted, upon said inventions in any countries or regions foreign to the United States, and all reissues, renewals and extensions thereof; and we hereby authorize and request the Commissioner for Patents and Trademarks of the United States, and all officials of countries or regions foreign to the United States having authority to do so, to issue all such Letters Patent or other grants of protection upon said inventions to the Assignee or to such nominees as it may designate.

AND I authorize and empower the Assignee or nominees to invoke and claim for any application for such Letters Patent or other grants of protection for said inventions filed by the Assignee or nominees, the benefit of the right of priority provided by the international Convention for the Protection of Industrial Property, as amended, or by a convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from me.

AND I hereby consent that a copy of this assignment shall be deemed a full and formal equivalent of any assignment, consent to file, or like document which may be required in any country or region for any purpose and more particularly in proof of the right of the Assignee or nominees to claim the aforesaid benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

AND I hereby covenant that I have the full right to convey the entire right, title, and interest herein assigned and that I have not executed and will not execute any agreement in conflict herewith.

AND I hereby covenant and agree that I will communicate to the Assignee or nominees all facts known to me pertaining to said inventions, and testify in all legal proceedings, sign all lawful papers, execute all divisional, continuing, and reissue applications, make all rightful oaths and declarations, and in general perform all lawful acts

PATENT REEL: 041346 FRAME: 0988

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necessary or proper to aid the Assignee or nominees in obtaining, maintaining, and enforcing all lawful patent or other grants of protection of said invention in any and all countries and regions.

IN TESTIMONY WHEREOF, I hereunto set our hand and seal this 18 day of August , >016

U.G. signature

Wilness: Mitsuhino Okuter Date: August 18, 2016

ASSIGNMENT

FOR VALUE RECEIVED, I

NAME DongKyun Kang address c/o The General Hospital Corporation 55 Fruit Street Boston, MA 20114

Citizenship: Republic of Korea

hereby sell, assign, transfer and convey unto

The General Hospital Corporation

a Corporation of Massachusetts, having a place of business at 55 Fruit Street, Boston, MA 02114,

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AND I authorize and empower the Assignee or nominees to invoke and claim for any application for such Letters Patent or other grants of protection for said inventions filed by the Assignee or nominees, the benefit of the right of priority provided by the international Convention for the Protection of Industrial Property, as amended, or by a convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from me.

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PATENT REEL: 041346 FRAME: 0990

necessary or proper to aid the Assignee or nominees in obtaining, maintaining, and enforcing all lawful patent or other grants of protection of said invention in any and all countries and regions.

IN TESTIMONY WHEREOF, I hereunto set our hand and scal this 27 day of ______

and the second 2-2-1-2-1 signature

witness: Nutshino anta

Date: 8/29/2016

ASSIGNMENT

FOR VALUE RECEIVED, I

NAME Guillermo J. Tearney address c/o The General Hospital Corporation 55 Fruit Street Boston, MA 20114

Citizenship: United States of America

hereby sell, assign, transfer and convey unto

The General Hospital Corporation

a Corporation of Massachusetts, having a place of business at 55 Fruit Street, Boston, MA 02114,

its successors, assigns and legal representatives (hereinafter called the "Assignce"), the entire right, title, and interest, for all countries, in and to certain inventions relating to

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and to said application, and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted, thereon, and all reissues and extensions thereof, and all applications for Letters Patent or other grants of protection of proprietary rights including, but not limited to, inventor's certificate, utility model, utility certificate, patent of importation, registration of patent and industrial design registration which may be filed, and which may be granted, upon said inventions in any countries or regions foreign to the United States, and all reissues, renewals and extensions thereof; and we hereby authorize and request the Commissioner for Patents and Trademarks of the United States, and all officials of countries or regions foreign to the United States having authority to do so, to issue all such Letters Patent or other grants of protection upon said inventions to the Assignee or to such nominees as it may designate.

AND I authorize and empower the Assignee or nominees to invoke and claim for any application for such Letters Patent or other grants of protection for said inventions filed by the Assignee or nominees, the benefit of the right of priority provided by the international Convention for the Protection of Industrial Property, as amended, or by a convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from me.

AND I hereby consent that a copy of this assignment shall be deemed a full and formal equivalent of any assignment, consent to file, or like document which may be required in any country or region for any purpose and more particularly in proof of the right of the Assignee or nominees to claim the aforesaid benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

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necessary or proper to aid the Assignce or nominees in obtaining, maintaining, and enforcing all lawful patent or other grants of protection of said invention in any and all countries and regions.

IN TESTIMONY WHEREOF, I hereunto set our hand and seal this 23 day of September 2016

signature

Date:

Witness:

RECORDED: 02/22/2017

PATENT REEL: 041346 FRAME: 0993