504110702 11/25/2016

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
TOMOAKI TAKEMURA	11/21/2016
YUYA OTAKE	11/22/2016

RECEIVING PARTY DATA

Name:	TERUMO KABUSHIKI KAISHA	
Street Address:	44-1, HATAGAYA 2-CHOME	
City:	SHIBUYA-KU, TOKYO	
State/Country:	JAPAN	
Postal Code:	151-0072	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15361179

CORRESPONDENCE DATA

Fax Number: (703)836-7419

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.

Phone: 7038366620

Email: beverly.caraway@bipc.com

Correspondent Name: BUCHANAN INGERSOLL & ROONEY P.C.

Address Line 1: P.O. BOX 1404

Address Line 4: ALEXANDRIA, VIRGINIA 22313-1404

ATTORNEY DOCKET NUMBER:	1027550-001673
NAME OF SUBMITTER:	BEVERLY A. CARAWAY
SIGNATURE:	/Beverly A. Caraway/
DATE SIGNED:	11/25/2016
This document serves as an Oath/Declaration (37 CFR 1.63).	

Total Attachments: 4

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> PATENT REEL: 040416 FRAME: 0504

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COMBINED DECLARATION AND ASSIGNMENT

(JOINT)

(1)		U.S. application numi		cation number	filed on
(2)	\boxtimes	the attached applicat	on entitled CATI	HETER.	
		<u>DE</u>	CLARATIC		
As one of the below	name	d inventors, I further de		o maioriales de termos. Garanto esta mespolo de Como de termos de t	
The above-	identif	ed application was ma	de or authorized	to be made by m	100
I believe tha	at I am	an original joint invent	or of a claimed ir	vention in the ap	oplication.
I have revie	wed a	nd understand the con	tents of the abov	e-identified appli	cation, including the claims.
		duty to disclose to the lity as defined in Title 3			ce all information known to me § 1.56.
		edge that any willful imprisonment of not me			claration is punishable under
i. Li trang		AS	SIGNMEN	IT	

THIS ASSIGNMENT, by the undersigned inventors (hereinafter referred to as "the Assignors"), respectively, witnesseth:

WHEREAS, the Assignors have invented certain new and useful improvements set forth in the application for Letters Patent of the United States identified above;

WHEREAS, TERUMO KABUSHIKI KAISHA, a corporation duly organized under and pursuant to the laws of Japan and having a principal place of business at 44-1, Hatagaya 2-chome, Shibuya-ku, Tokyo 151-0072, Japan (hereinafter referred to as "the Assignee"), is desirous of acquiring the entire right, title, and interest in and to said inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications, including provisional applications for Letters Patent of the United States or other countries claiming priority to said application, and in and to any Letters Patent or Patents. United States or foreign, to be obtained therefor and thereon.

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, the Assignors have sold, assigned, transferred, and set over, and by these presents does sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns the entire right, title, and interest in and to the above-mentioned inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications for Letters Patent of the United States or other countries claiming priority to said applications, and any and all Letters Patent or Patents of the United States of America and all foreign countries that may be granted therefor and thereon, and in and to any and all applications

PATENT REEL: 040416 FRAME: 0505

Attorney	Docket	No.	1027	550	-001	673
Applicat	ion No.					

claiming priority to said applications, divisions, continuations, and continuations-in-part of said applications, and reissues and extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the Assignee, for its own use and behoof and the use and behoof of its successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted as fully and entirely as the same would have been held and enjoyed by the Assignors had this sale and assignment not been made;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignors are the sole and lawful owners of the entire right, title, and interest in and to the inventions set forth in said applications and said applications, including provisional applications, above-mentioned, and that the same are unencumbered, and that the Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns that the Assignors will, whenever counsel of the Assignee, or the counsel of its successors, legal representatives, and assigns, shall advise that any proceeding in connection with said inventions or said applications for Letters Patent or Patents, or any proceeding in connection with Letters Patent or Patents for said inventions in any country, including interference proceedings, is lawful and desirable, or that any application claiming priority to said application, division, continuation, or continuation-in-part of any applications for Letters Patent or Patents, or any reissue or extension of any Letters Patent or Patents to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement, and defense of Letters Patent or Patents for said inventions, without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns;

AND the Assignors hereby request the Commissioner of Patents to issue any and all said Letters Patent of the United States to the Assignee as the Assignee of said inventions, the Letters Patent to be issued for the sole use and behoof of the Assignee, its successors, legal representatives, and assigns.

11/21/2016	Tomoski TAKEMURA	Comatre Lakenwa
Date	Name	Signature
		•
	Yuya OTAKE	
Date	Name	Signature

COMBINED DECLARATION AND ASSIGNMENT

(JOINT)

As one of the below name	ed inventors, I hereby declare that this Declaration is directed to:
(1)	U.S. application number or PCT application numberfiled on; or
(2) 🖾	the attached application entitled CATHETER.
	<u>DECLARATION</u>
As one of the below name	ed inventors, I further declare that:
The above-identifi	ied application was made or authorized to be made by me.
I believe that I am	an original joint inventor of a claimed invention in the application.
I have reviewed a	nd understand the contents of the above-identified application, including the claims.
l acknowledge the to be material to patentable	e duty to disclose to the U.S. Patent and Trademark Office all information known to me ility as defined in Title 37, Code of Federal Regulations, § 1.56.
I hereby acknowl	edge that any willful false statement made in this declaration is punishable under

<u>ASSIGNMENT</u>

18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

THIS ASSIGNMENT, by the undersigned inventors (hereinafter referred to as "the Assignors"), respectively, witnesseth:

WHEREAS, the Assignors have invented certain new and useful improvements set forth in the application for Letters Patent of the United States identified above;

WHEREAS, TERUMO KABUSHIKI KAISHA, a corporation duly organized under and pursuant to the laws of Japan and having a principal place of business at 44-1, Hatagaya 2-chome, Shibuya-ku, Tokyo 151-0072, Japan (hereinafter referred to as "the Assignee"), is desirous of acquiring the entire right, title, and interest in and to said inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications, including provisional applications for Letters Patent of the United States or other countries claiming priority to said application, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon.

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, the Assignors have sold, assigned, transferred, and set over, and by these presents does sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns the entire right, title, and interest in and to the above-mentioned inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications for Letters Patent of the United States or other countries claiming priority to said applications, and any and all Letters Patent or Patents of the United States of America and all foreign countries that may be granted therefor and thereon, and in and to any and all applications

PATENT REEL: 040416 FRAME: 0507

Attorney Docket	No. 1027550-001673
Application No.	

claiming priority to said applications, divisions, continuations, and continuations-in-part of said applications, and reissues and extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the Assignee, for its own use and behoof and the use and behoof of its successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted as fully and entirely as the same would have been held and enjoyed by the Assignors had this sale and assignment not been made;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignors are the sole and lawful owners of the entire right, title, and interest in and to the inventions set forth in said applications and said applications, including provisional applications, above-mentioned, and that the same are unencumbered, and that the Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns that the Assignors will, whenever counsel of the Assignee, or the counsel of its successors, legal representatives, and assigns, shall advise that any proceeding in connection with said inventions or said applications for Letters Patent or Patents, or any proceeding in connection with Letters Patent or Patents for said inventions in any country, including interference proceedings, is lawful and desirable, or that any application claiming priority to said application, division, continuation, or continuation-in-part of any applications for Letters Patent or Patents, or any reissue or extension of any Letters Patent or Patents to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement, and defense of Letters Patent or Patents for said inventions, without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns;

AND the Assignors hereby request the Commissioner of Patents to issue any and all said Letters Patent of the United States to the Assignee as the Assignee of said inventions, the Letters Patent to be issued for the sole use and behoof of the Assignee, its successors, legal representatives, and assigns.

***************************************	Tomoski TAKEMURA	
Date	Name	Signature
22/11/2016	Yuya OTAKE	- Joua Ctake
Date	Name	√ Signature

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