504867552 04/13/2018

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT			
NATURE OF CONVEYANCE:	ASSIGNMENT			

CONVEYING PARTY DATA

Name	Execution Date	
Hirotoshi AMANO	03/30/2018	

RECEIVING PARTY DATA

Name:	OLYMPUS CORPORATION
Street Address:	2951 ISHIKAWA-MACHI
City:	HACHIOJI-SHI, TOKYO
State/Country:	JAPAN

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	29639757

CORRESPONDENCE DATA

Fax Number: (703)836-2787

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.

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Correspondent Name: JAMES A. OLIFF

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Address Line 4: ALEXANDRIA, VIRGINIA 22320-4850

ATTORNEY DOCKET NUMBER:	180567
NAME OF SUBMITTER:	GRETCHEN BASHORE
SIGNATURE:	/gretchen bashore/
DATE SIGNED:	04/13/2018

Total Attachments: 2

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PATENT 504867552 REEL: 045532 FRAME: 0599

ASSIGNMENT (BEING FILED FOR DUAL PURPOSE UNDER 37 CFR 1.63(e)) For Application with Filing Date on or after September 16, 2012

ASSIGNMENT

	111463.5	(1)	MURRISH ADECUAC		(4)		
(1-8)	Legal Name(s)	(3)			(4)		
	of Inventor(s)	(5)			(6)		
		(7)		***************************************	(8)		
		In consideration of the sum of one dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, the receipt and sufficiency of which are hereby acknowledged, each undersigned agrees to assign, and hereby does assign, transfer and set over to					
(9)	Insert Name of Assignce	(9) OLYMPUS CORPORATION					
(18)	Insert Address of Assignce	(10)	2951 Ishikawa-machi, Ha	chiaji-shi, Tokyo	, Jap	ā	
		the ent investi contin	ire right, title and interest for on, and in all applications for ation, international, substitu	r the United States or patent including ste and reissue app	of A auy diesti	sirs, successors, assigns and legal representatives, merica as defined in 35 U.S.C. §100, in the and all provisional, non-provisional, divisional, ion(s), and all Letters Patent, extensions, reissues invention (or claimed design) known as	
(11)	Insert Identification such as Title, Case	(11)	OPERATING UNIT POR	SURGICAL DE	AICE		
	Number, or Foreign Application Number	(Attor	ney Docket No.	180567	_), f	iled on even date herewith or as	
(12)	Alternative	(12)	U.S. Application Number	29/639,757			
	Identification for				•••••		
	filed applications	filed	March 8, 2018				

- Each undersigned agrees to execute all papers necessary in connection with any application aud/or patent for the invention and also to execute separate assignments in connection with such applications and patents as the Assignee may deem necessary.
- 2) Each undersigned agrees to execute all papers necessary in connection with any interference or post-grant proceeding which may be declared concerning any application or patent for the invention and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or post-grant proceeding.
- 3) Each undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.
- 4) Each undersigned agrees to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or reexamination a grant of a valid United States patent to the Assignee.
- 5) Each undersigned authorizes and requests the Commissioner of the U.S. Patent and Trademark Office to issue any and all patents resulting from said application(s) to the said Assignee, as Assignee of the entire interest, and covenants that he or she has full right to convey the entire interest herein assigned, and that he or she has not executed, and will not execute, any agreement(s) in conflict herewith, and agrees that this assignment is binding on Assignor and Assignor's heirs, successors, assigns and legal representatives.
- 6) Each undersigned hereby grants the firm of OLIFF PLC the power to insert on this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

(13) Declaration

As an above named inventor, I hereby declare that:

I believe I am the original inventor or as original joint inventor of a claimed invention (or claimed design) in the above-identified application for which this declaration is being submitted.

The application was made or sutherized to be made by me.

Thave reviewed and understand the contents of the above-identified application, including the claims, and am aware of the duty to disclose to the Office all information known to me to be material to patentability as defined in 37 CFR §1.56.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

PATENT REEL: 045532 FRAME: 0600 In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s),

Date	Mar. 78, 2018	Inventor Signature	Tofintoh Amono	(SEAL)
Date		Inventor Signature	Hirotoshi AMANO	(SEAL)
Date		Inventor Signature		(SEAL)
Date	·····	Inventor Signature		(SEAL)
Date		Inventor Signature		(SEAL)
Date		Inventor Signature		(SEAL)
Date		Inventor Signature		(SEAL)
Date		Inventor Signature		(SEAL)
two wit	Although neither is necessary, the assignment nesses (if executed in the U.S. or a foreign cou	nt sbould preferably be (untry) who also sign her	 notarized (if executed in the U.S.), or (2) signed bef 	ore at least
Date		Witness		
Date		Witness		