

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
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EPAS ID: PAT4293547

<b>SUBMISSION TYPE:</b>	CORRECTIVE ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	Corrective Assignment to correct the INCORRECT RECEIVING PARTY DATA previously recorded on Reel 040588 Frame 0429. Assignor(s) hereby confirms the ASSIGNMENT.	
<b>RESUBMIT DOCUMENT ID:</b>	504165230	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	NORIIHIKO HAREYAMA	11/10/2016
	AKINORI KABAYA	11/18/2016
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	OLYMPUS CORPORATION	
<b>Street Address:</b>	2951 ISHIKAWA-MACHI	
<b>City:</b>	HACHIOJI-SHI, TOKYO	
<b>State/Country:</b>	JAPAN	
<b>Postal Code:</b>	192-8507	
<b>PROPERTY NUMBERS Total: 1</b>		
<b>Property Type</b>	<b>Number</b>	
<b>Application Number:</b>	15371446	
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>		
<i>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.</i>		
<b>Email:</b>	email@oliff.com	
<b>Correspondent Name:</b>	OLIFF PLC	
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<b>Address Line 4:</b>	ALEXANDRIA, VIRGINIA 22320	
<b>ATTORNEY DOCKET NUMBER:</b>	174143	
<b>NAME OF SUBMITTER:</b>	CHARISSE PARKS	
<b>SIGNATURE:</b>	/Charisse Parks/	
<b>DATE SIGNED:</b>	02/27/2017	
<b>Total Attachments: 4</b>		
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## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
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EPAS ID: PAT4173834

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Norihiko HAREYAMA	11/10/2016
Akinori KABAYA	11/18/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	Olympus Corporation
<b>Street Address:</b>	2951 Ishikawa-machi
<b>City:</b>	Hanchioji-shi, Tokyo
<b>State/Country:</b>	Japan
<b>Postal Code:</b>	192-8507
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15371446
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(703)836-2787
<i>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.</i>	
<b>Phone:</b>	703-836-6400
<b>Email:</b>	email@oliff.com
<b>Correspondent Name:</b>	JAMES A. OLIFF
<b>Address Line 1:</b>	OLIFF PLC
<b>Address Line 2:</b>	P.O. BOX 320850
<b>Address Line 4:</b>	ALEXANDRIA, VIRGINIA 22320-4850
<b>ATTORNEY DOCKET NUMBER:</b>	174143
<b>NAME OF SUBMITTER:</b>	STACY HAMPTON
<b>SIGNATURE:</b>	"/Stacy Hampton/"
<b>DATE SIGNED:</b>	12/07/2016
<b>Total Attachments: 3</b>	
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# ASSIGNMENT

15P02095 US 00  
(15F0497P1)

In consideration of value received, I, having a residence as stated below above my name, the sole inventor (if only one name is listed below) or a joint inventor (if plural inventors are listed below) of an invention described in an application for United States patent entitled:

## ENERGY TREATMENT APPARATUS

have sold and assigned and do hereby sell and assign to

OLYMPUS CORPORATION

a Japanese corporation, having a business address at  
2951 Ishikawa-machi, Hachioji-shi, Tokyo, 192-8507, Japan ;

its successors, assigns or nominees, hereinafter referred to as "Assignee", my entire right, title and interest in and to said invention as disclosed, shown and described in said United States patent application:

(check one) ☒ executed concurrently herewith  
☐ executed on ;  
☐ Application No. , filed ;

and in and to all applications for patent and patents for invention including all divisions, reissues, continuations, substitutes and extensions thereof and all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property, including rights of priority, resulting from the filing of any of said applications; and I authorize and request any official whose duty is to issue patents, to issue any patent on said invention or resulting therefrom to said Assignee, and I agree that on request and without further consideration, but at the expense of said Assignee, I will communicate to said Assignee or its representatives all facts known to me respecting said invention and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuing, continued prosecution, reissue, or other applications, make all rightful oaths and declarations, and generally do everything possible to aid said Assignee to obtain and enforce proper patent protection for said invention.

I hereby grant the following law firm the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the Rules of the U.S. Patent and Trademark Office for recordation of this document.

Oloff PLC, 277 South Washington Street Suite 500 Alexandria, Virginia 22314

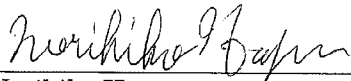
ASSIGNMENT

15P02095 US 00  
(15F0497P1)

Inventor: (Signature)

Date

Residence

  
Norihiko Hareyama

Nov. 10, 2016

Hino-shi, Japan

Akinori Kabaya

Berlin, Germany

ASSIGNMENT

15P02095 US 00  
(15F0497P1)

<u>Inventor: (Signature)</u>	<u>Date</u>	<u>Residence</u>
<u>Norihiko Hareyama</u>	<u></u>	<u>Hino-shi, Japan</u>
<u>Akinori Kabaya</u> Akinori Kabaya	<u>Nov. 18, 2016</u>	<u>Berlin, Germany</u>