505205814 11/27/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5252582

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
VENKATAKAUSHIK VOLETI	09/29/2017
ELIZABETH M.C. HILLMAN	09/29/2017

RECEIVING PARTY DATA

Name:	THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK	
Street Address:	412 LOW MEMORIAL LIBRARY	
Internal Address:	535 WEST 116TH STREET, MAIL CODE 4308	
City:	NEW YORK	
State/Country:	NEW YORK	
Postal Code:	10027	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16304755

CORRESPONDENCE DATA

Fax Number: (202)318-7707

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: 202-670-3220

Email: patents@potomaclaw.com, carthur@potomaclaw.com

Correspondent Name: POTOMAC LAW GROUP, PLLC Address Line 1: 8229 BOONE BOULEVARD

Address Line 2: SUITE 430

Address Line 4: VIENNA, VIRGINIA 22182

ATTORNEY DOCKET NUMBER:	1448-0156US01	
NAME OF SUBMITTER:	SUBMITTER: CHRISTINE ARTHUR, PARALEGAL	
SIGNATURE:	/Christine Arthur/	
DATE SIGNED:	11/27/2018	

Total Attachments: 4

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PATENT 505205814 REEL: 047589 FRAME: 0841

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> PATENT REEL: 047589 FRAME: 0842

Assignment

WHEREAS, I/We, <u>Venkatakaushik VOLETI and Elizabeth M.C. HILLMAN</u>, have made an invention entitled "<u>Scape Microscopy with Phase Modulating Element and Image Reconstruction</u>" for which I/We have filed an international patent application under the Patent Cooperation Treaty (PCT) on <u>May 30, 2017</u>, as Application No. <u>PCT/US2017/034984</u>; which claims priority to U.S. Provisional Application No. 62/343,112 filed on May 30, 2016; and

WHEREAS, The Trustees of Columbia University in the City of New York ("ASSIGNEE"), a business entity organized under the laws of NEW YORK, and whose postal address is 412 Low Memorial Library, 535 West 116th St., Mail Code 4308, New York, NY 10027, desires to acquire the entire right, title, and interest in and to the invention, the application, and any Letters Patent to be granted for the invention in the United States and in all foreign countries;

NOW, THEREFORE, in consideration of good and valuable consideration, the receipt and sufficiency of which I/We acknowledge, I/We, have, assigned, transferred, and set over, and do hereby assign, transfer, and set over unto ASSIGNEE, its successors, legal representatives, and assigns, the entire right, title, and interest in and to the invention, including any improvement thereof, the application, all applications claiming benefit of the application, including, but not limited to, all divisions, continuations, and continuation-in-part of the application, and all Letters Patent that may be granted thereon in the United States and in all foreign countries, and all reissues or re-exams thereof, together with the right to claim priority under the International Convention in all member countries, for said invention or improvements, including all priority rights, and any and all Letters Patent which may be granted in foreign countries therefor, and in and to any other applications based in whole or in part on any of the foregoing; and I/We authorize and request the Director of the United States Patent and Trademark Office to issue all Letters Patent for the invention to ASSIGNEE, its successors, legal representatives, and assigns in accordance with the terms of this Assignment;

AND I/We covenant and agree that I/We have the full right to convey the entire right, title, and interest herein assigned and that I/We have not executed and will not execute any assignment or other instrument in conflict with this Assignment;

AND I/We represent and warrant that I/We have the full power to make this assignment and that the rights, titles, and interests assigned are not encumbered by any grant, license, or right heretofore given;

AND I/We further covenant and agree that upon request by ASSIGNEE, its successors, legal representatives, and/or assigns, and without further consideration, I/We will do all lawful acts that may be necessary or desirable to assist ASSIGNEE, its successors, legal representatives, and/or assigns to obtain and enforce patent protection for the invention in the United States and in all foreign countries, including, but not limited to, communicate with ASSIGNEE, its successors, legal representatives, and/or assigns any facts known to me/us regarding the invention, testify in any legal proceeding, sign all lawful papers, execute and deliver all papers that may be necessary or desirable to perfect the title to the invention in ASSIGNEE, its successors, legal representatives, and/or assigns, execute all divisional, continuation, and reissue applications, and make all rightful

PATENT REEL: 047589 FRAME: 0843 oaths, it being understood that any expense incident to the rendering of such assistance will be borne by ASSIGNEE, its successors, legal representatives, and/or assigns;

AND I/WE further hereby authorize ASSIGNEE or its attorneys or agents to insert the correct application number and filing date into this Assignment, if none is indicated on that date of my/our execution of this Assignment.

IN WITNESS WHEREOF, I/We have executed this Assignment on the date(s) indicated below.

/Venkatakaushik Voteti Veneti	Signature:
Date: 09/29/2017	Date:
Full Name: Venkatakaushik VOLETI	Full Name: Elizabeth M.C. HILLMAN

Assignment

WHEREAS, I/We, <u>Venkatakaushik VOLETI and Elizabeth M.C. HILLMAN</u>, have made an invention entitled "Scape Microscopy with Phase Modulating Element and Image <u>Reconstruction</u>" for which I/We have filed an international patent application under the Patent Cooperation Treaty (PCT) on <u>May 30, 2017</u>, as Application No. <u>PCT/US2017/034984</u>; which claims priority to U.S. Provisional Application No. 62/343,112 filed on May 30, 2016; and

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IN WITNESS WHEREOF, I/We have executed this Assignment on the date(s) indicated below.

Signature:	Signature:
	Signature:
Date:	Date: 9/29/17
Full Name: Venkatakaushik VOLETI	Full Name: Elizabeth M.C. HILLMAN