505225617 12/07/2018 PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:		NEW ASSIGNMENT	
NATURE OF CONVEYANCE:		ASSIGNMENT	
CONVEYING PARTY	DATA		
		Name	Execution Date
ULRICH WIESNER			05/12/2017
HOOISWENG OW		05/12/2017	
ANDREW BURNS		05/31/2017	
Street Address:	CENTER FOR TECHNOLOGY LICENSING ("CTL") AT CORNELL UNIVERSITY 395 PINE TREE ROAD. SUITE 310		
Internal Address:	395 PIN	395 PINE TREE ROAD, SUITE 310	
City:	ITHACA	ITHACA	
State/Country:	NEW Y	NEW YORK	
Postal Code:	14850	14850	
PROPERTY NUMBER	S Total: 1		
		Number	

CORRESPONDENCE DATA

Fax Number:

(617)502-5002

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.

617-248-5000	
PatentDocket@choate.com	
CHOATE HALL & STEWART LLP-PATENT DOCKET	
TWO INTERNATIONAL PLACE	
BOSTON, MASSACHUSETTS 02110	

ATTORNEY DOCKET NUMBER:	2003080-1326	
NAME OF SUBMITTER:	MARGO R. MONROE, PHD	
SIGNATURE:	/Margo R. Monroe/	
DATE SIGNED:	12/07/2018	
Tatal Attackments: 2		

Total Attachments: 3

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PATENT REEL: 047709 FRAME: 0047

Cornell University ASSIGNMENT

WHEREAS, We, Ulrich Wiesner, a German citizen, residing at 105 White Park Road, Ithaca, NY 14850, Hooisweng Ow, a Malaysian citizen, residing at 15 Exeter Drive, Woburn, MA 01801, and Andrew Burns, a United States citizen, residing at 2251 Van Antwerp Road, Niskayuna, NY 12309 have invented certain new and useful improvements in FLUORESCENT SILICA-BASED NANOPARTICLES for which an application for Letters Patent in the United States was filed as U.S. Serial No. 15/446319 on March 1, 2017 which is a continuation of U.S. Application No. 13/381,209 filed September 27, 2012 which is a National Stage Entry of of International Application No. PCT/US10/40994 filed July 2, 2010 which claims priority to U.S. Provisional Application No. 61/312,827 filed March 11, 2010 and U.S. Provisional Application No. 61/222,851 filed July 2, 2009;

AND WHEREAS, Cornell University, with its principal place of business at the Center for Technology Licensing ("CTL") at Cornell University, 395 Pine Tree Road, Suite 310, Ithaca, New York 14850 USA, is entitled to acquire the entire right, title and interest in and to the said improvements and the said Application:

NOW, THEREFORE, for good and valuable consideration, including salary or payment for the making of inventions, or employee benefits, the receipt of which is hereby acknowledged, we, the said inventors, do hereby acknowledge that we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said Cornell University, its successors, legal representatives and assigns, the entire right, title and interest throughout the world in, to and under the said improvements, and the 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 rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and we hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said Cornell University, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we will communicate to the said **Cornell University**, its successors, legal representatives, and assigns, any facts known to us respecting said improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, and reissue applications, make all rightful oaths and generally do everything possible to aid the said **Cornell University**, its successors, legal representatives, and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

Witness Signature Option

Wiesner **Witness Signature**

HMIL J. Prince First Witness Printed Name

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PATENT REEL: 047709 FRAME: 0048

Second Witness Signature

Date

Second Witness Printed Name

Witness Signature Option

Hooisweng Ow

5/12/17 Date

First Witness Signature

05/12/2017 Date

Ayrat 6: 224-First Witness Printed Name <u>ر کت</u>

Second Witness Signature

<u>5/12/17</u> Date

Rena Shi Second Witness Printed Name

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PATENT **REEL: 047709 FRAME: 0049** Witness Signature Option

Andrew Burns

<u>CO</u> First Witness Signature

Date 5 31 2017

5/31/2017

Date

Entre D. W. History First Witness Printed Name From C Fale Second Witness Signature

<u>5/3//2017</u> Date

BRIAN C BAL55 Second Witness Printed Name

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PATENT **REEL: 047709 FRAME: 0050**

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RECORDED: 12/07/2018