

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
LORNE LOUDIN	06/20/2018
MEHDI TOOSI	06/14/2018
WUYI WANG	06/23/2018
RECEIVING PARTY DATA	
Name:	GEMOLOGICAL INSTITUTE OF AMERICA, INC. (GIA)
Street Address:	ROBERT MOUAWAD CAMPUS
Internal Address:	5345 ARMADA DRIVE
City:	CARLSBAD
State/Country:	CALIFORNIA
Postal Code:	92008
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16005311
CORRESPONDENCE DATA	
Fax Number:	(650)833-2001
<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>	
Phone:	650.833.2000
Email:	PatentDocketingUS-PaloAlto@dlapiper.com
Correspondent Name:	DLA PIPER LLP (US)
Address Line 1:	2000 UNIVERSITY AVENUE
Address Line 4:	EAST PALO ALTO, CALIFORNIA 94303-2214
ATTORNEY DOCKET NUMBER:	353397-165983/GIA-2400
NAME OF SUBMITTER:	BLAKE W. JACKSON, REG. #66,272
SIGNATURE:	/Blake Jackson/
DATE SIGNED:	07/03/2018
Total Attachments: 4	
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ASSIGNMENT

WHEREAS, Wuyi WANG, Lorne LOUDIN and Mehdi TOOSI made certain inventions or discoveries (or both) set forth in an Application for Letters Patent of the United States of America entitled

UPFLOW COOLING STAGE FOR PHOTOLUMINESCENCE ANALYSIS

_____ issued as U.S Patent No. _____;
X filed herewith, or filed as serial no. 16/005,311 on June 11, 2018.

We hereby authorize our attorney to insert the application serial number and filing date of the application into this assignment when known.

WHEREAS, GEMOLOGICAL INSTITUTE OF AMERICA, INC. (GIA), a corporation of the State of California and whose address is **5345 Armada Drive, Robert Mouawad Campus, Carlsbad, California 92008** and who, together with its successors and assigns is hereinafter called "Assignee", is desirous of acquiring the entire right, title and interest together with the benefits and privileges hereinafter recited;

NOW, THEREFORE, for valuable consideration furnished by Assignee to me, receipt and sufficiency of which I hereby acknowledge, effective as of the date signed, I hereby, without reservation;

1. Assign, transfer and convey to Assignee the entire right, title and interest together with the benefits and privileges in and to said inventions and discoveries, said Application for Letters Patent or similar forms of protection of the United States of America, and all other applications for Letters Patent on said inventions and discoveries in whatsoever countries, including all divisional, renewal, substitute, continuation and convention applications based in whole or in part upon said inventions or discoveries, or upon said application, and any and all Letters Patent, reissues and extensions of Letters Patent or similar forms of protection granted for said inventions and discoveries or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said discoveries, said applications and said Letters Patent, including all rights to said inventions, discoveries and said Patents and applications as fully and entirely as the same would have been held and enjoyed by me if this Agreement had not been made, including all claims for damages and/or injunction by reason of past and present infringement and including the collection and retention of such damages for the use and enjoyment of Assignee and its successors and assigns;

2. Authorize Assignee to file patent applications in any or all countries or groups of countries on any or all of said inventions and discoveries in my name or in the name of Assignee or otherwise as Assignee may deem advisable, under the International Convention or any other relevant convention or treaty or otherwise;

3. Authorize and request the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments to issue or transfer all said Letters Patent to Assignee, as assignee of the entire right, title and interest therein, or otherwise as Assignee may direct;

4. Warrant that I have not knowingly conveyed to others any rights in said inventions, discoveries, applications or patents or any license to use the same or to make, use or sell anything

embodying or utilizing any of said inventions or discoveries; and that I have good right to assign the same to Assignee without encumbrance;

5. Bind my heirs, legal representatives and assigns, as well as myself, to do, upon Assignee's request and at Assignee's expense, but without additional consideration to me or them, all acts reasonable serving to assure that said inventions and discoveries, said patent applications and said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by me, my heirs, legal representatives and assigns if this assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to Assignee all facts known to me relating to said inventions and discoveries or the history thereof; and to furnish Assignee with any and all documents, photographs, models, samples and other physical exhibits in my control or in the control of my heirs, legal representatives or assigns which may be useful for establishing any facts of my conceptions, disclosures, and reduction to practice of said inventions or discoveries.

Executed this

Signature of Inventor

23rd day of June, 2018



Wuyi WANG

Executed this

Signature of Inventor

____ day of _____, 2018

Lorne LOUDIN

Executed this

Signature of Inventor

____ day of _____, 2018

Mehdi TOOSI

embodying or utilizing any of said inventions or discoveries; and that I have good right to assign the same to Assignee without encumbrance;

5. Bind my heirs, legal representatives and assigns, as well as myself, to do, upon Assignee's request and at Assignee's expense, but without additional consideration to me or them, all acts reasonable serving to assure that said inventions and discoveries, said patent applications and said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by me, my heirs, legal representatives and assigns if this assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to Assignee all facts known to me relating to said inventions and discoveries or the history thereof; and to furnish Assignee with any and all documents, photographs, models, samples and other physical exhibits in my control or in the control of my heirs, legal representatives or assigns which may be useful for establishing any facts of my conceptions, disclosures, and reduction to practice of said inventions or discoveries.

Executed this

Signature of Inventor

____ day of _____, 2018

Wuyi WANG

Executed this

Signature of Inventor

20 day of June, 2018

Lorne LOUDIN

Executed this

Signature of Inventor

____ day of _____, 2018

Mehdi TOOSI

embodying or utilizing any of said inventions or discoveries; and that I have good right to assign the same to Assignee without encumbrance;

5. Bind my heirs, legal representatives and assigns, as well as myself, to do, upon Assignee's request and at Assignee's expense, but without additional consideration to me or them, all acts reasonable serving to assure that said inventions and discoveries, said patent applications and said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by me, my heirs, legal representatives and assigns if this assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to Assignee all facts known to me relating to said inventions and discoveries or the history thereof; and to furnish Assignee with any and all documents, photographs, models, samples and other physical exhibits in my control or in the control of my heirs, legal representatives or assigns which may be useful for establishing any facts of my conceptions, disclosures, and reduction to practice of said inventions or discoveries.

Executed this

Signature of Inventor

____ day of _____, 2018

Wuyi WANG

Executed this

Signature of Inventor

____ day of _____, 2018

Lorne LOUDIN

Executed this

Signature of Inventor

14 day of June, 2018

Mehdi TOOSI