

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
<b>CONVEYING PARTY DATA</b>											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>James S. Im</td> <td>08/23/2010</td> </tr> <tr> <td>Ui-Jin Chung</td> <td>08/23/2010</td> </tr> <tr> <td>Alexander B. Limanov</td> <td>08/23/2010</td> </tr> <tr> <td>Paul C. Van Der Wilt</td> <td>07/07/2010</td> </tr> </tbody> </table>		Name	Execution Date	James S. Im	08/23/2010	Ui-Jin Chung	08/23/2010	Alexander B. Limanov	08/23/2010	Paul C. Van Der Wilt	07/07/2010
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Alexander B. Limanov	08/23/2010										
Paul C. Van Der Wilt	07/07/2010										
<b>RECEIVING PARTY DATA</b>											
Name:	The Trustees of Columbia University in the City of New York										
Street Address:	412 Low Memorial Library										
Internal Address:	535 West 116th Street										
City:	New York										
State/Country:	NEW YORK										
Postal Code:	10027										
<b>PROPERTY NUMBERS Total: 1</b>											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12776756</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12776756						
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Application Number:	12776756										
<b>CORRESPONDENCE DATA</b>											
Fax Number:	(617)526-5000										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	6175266000										
Email:	michael.mathewson@wilmerhale.com										
Correspondent Name:	Larissa Park										
Address Line 1:	60 State Street										
Address Line 2:	Wilmer Cutler Pickering Hale and Dorr										
Address Line 4:	Boston, MASSACHUSETTS 02109										
ATTORNEY DOCKET NUMBER:	19240.885 US3										
NAME OF SUBMITTER:	Larissa Park										

OP \$40.00 12776756

Total Attachments: 5

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ASSIGNMENT

WHEREAS, we, James S. Im, residing at 2828 Broadway, Apt. 9E, New York, NY 10025 USA; U-Jin Chung, residing 85-18 65<sup>th</sup> Drive, Rego Park, NY 11374 USA; Alexander B. Limanov, residing at 52 Milton Street, Milburn, NJ 07041 USA; and Paul C. Van Der Wilt, residing at 500 West 120<sup>th</sup> Street, New York, New York, 10027 USA, (collectively the "Assignors") are the inventors of a certain new and useful invention and discovery entitled "SYSTEMS AND METHODS FOR NON-PERIODIC PULSE SEQUENTIAL LATERAL SOLIDIFICATION" ("the Invention") for which a patent application was filed with the United States Patent and Trademark Office on May 10, 2010 as U.S. Patent Application Number 12/776,756 ("the Application").

WHEREAS, The Trustees of Columbia University in the City of New York, existing under the laws of the State of New York, having its principal office at 412 Low Memorial Library, 535 West 116<sup>th</sup> Street, New York, NY 10027, which, together with its successors and assigns, is hereinafter called "Assignee," is desirous of acquiring the title, rights, benefits, and privileges hereinafter recited.

For valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignors hereby assign to Assignee all of Assignors' right, title and interest in and to the Invention, all improvements therein, the Application and all priority rights arising therefrom, and any applications and/or patents, and any reissues and extensions thereof, which issue in any country upon any patent applications which correspond with any of the following: the Application; any application that claims priority from the Application (including utility applications, divisionals, continuations, continuations-in-part, international applications and/or any foreign regional and/or national applications), or any application based in whole or in part on any of the foregoing.

Assignors agree that such Assignors and Assignors' heirs and legal representatives will, without further consideration, cooperate with Assignee in the prosecution of all of the above applications, execute, verify, acknowledge and deliver all such further papers, including applications for patents and for reissues and extensions therefor, and instruments of assignment and transfer thereof, and will communicate any facts known to Assignors relating to the Invention, to obtain or maintain or enforce patents for the Invention and improvements therein in any and all countries and to vest title thereto in Assignee. Assignors further agree that such Assignors will, without further compensation to Assignors during the term of such Assignors' employment by Assignee and thereafter for reasonable compensation as determined by Assignee, perform such other acts as may be reasonably required when requested by Assignee, including attending depositions, preparing and executing declarations

Assignment  
U.S. Patent Application No.: 12/776,756

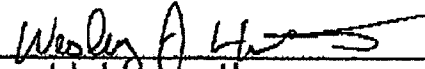
Attorney Docket No.: 19240.885-US3

and affidavits and testifying as a witness, to obtain or maintain or enforce patents for the Invention and improvements therein in any and all countries and to vest title thereto in Assignee.

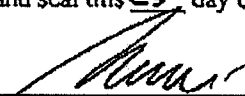
IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 23 day of 8/2010 (Month/Year)

  
James S. Im

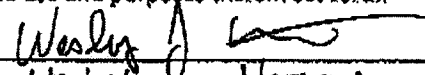
On this 23 day of 8/2010 (Month/Year), James S. Im, personally known to me to be the same individual who executed the foregoing Assignment, and who acknowledged to me that execution of the same was of his own free will for the use and purposes therein set forth.

WITNESS:   
Printed Name: Wesley HATTAN  
Residential Address: 808 Main ST #C11  
New York, NY 10014

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 23 day of 8/2010 (Month/Year)

  
Ui-Jin Chung

On this 23 day of 8/2010 (Month/Year), Ui-Jin Chung, personally known to me to be the same individual who executed the foregoing Assignment, and who acknowledged to me that execution of the same was of his own free will for the use and purposes therein set forth.

WITNESS:   
Printed Name: Wesley HATTAN  
Residential Address: \_\_\_\_\_

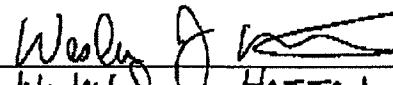
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U.S. Patent Application No.: 12/776,756

Attorney Docket No.: 19240.885-US3

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 23 day of  
8/2010 (Month/Year)

  
Alexander B. Limanov

On this 23 day of 8/2010 (Month/Year), Alexander B. Limanov, personally known to me to be the same individual who executed the foregoing Assignment, and who acknowledged to me that execution of the same was of his own free will for the use and purposes therein set forth.

WITNESS:   
Printed Name: Wesley HATTAN  
Residential Address: 888 MANHATTAN ST #6011  
NEW YORK, NY 10044

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this \_\_\_\_ day of  
\_\_\_\_ (Month/Year)

\_\_\_\_\_  
Paul C. Van Der Wilt

On this \_\_\_\_ day of \_\_\_\_ (Month/Year), Paul C. Van Der Wilt, personally known to me to be the same individual who executed the foregoing Assignment, and who acknowledged to me that execution of the same was of his own free will for the use and purposes therein set forth.

WITNESS: \_\_\_\_\_  
Printed Name: \_\_\_\_\_  
Residential Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**ASSIGNMENT**

WHEREAS, we, James S. Im, residing at 2828 Broadway, Apt. 9E, New York, NY 10025 USA; Uijin Chung, residing 85-18 65<sup>th</sup> Drive, Rego Park, NY 11374 USA; Alexander B. Limanov, residing at 52 Milton Street, Milburn, NJ 07041 USA; and Paul C. Van Der Wilt, residing at ~~500 West 120<sup>th</sup> Street, New York, New York, 10027 USA~~, (collectively the "Assignors") are the inventors of a certain new and useful invention and discovery entitled "SYSTEMS AND METHODS FOR NON-PERIODIC PULSE SEQUENTIAL LATERAL SOLIDIFICATION" ("the Invention") for which a patent application was filed with the United States Patent and Trademark Office on May 10, 2010 as U.S. Patent Application Number 12/776,756 ("the Application").

*629 West  
115<sup>th</sup> Street,  
7B, New York,  
NY 10025,  
USA  
7/7/2010  
PCV*

WHEREAS, The Trustees of Columbia University in the City of New York, existing under the laws of the State of New York, having its principal office at 412 Low Memorial Library, 535 West 116<sup>th</sup> Street, New York, NY 10027, which, together with its successors and assigns, is hereinafter called "Assignee," is desirous of acquiring the title, rights, benefits, and privileges hereinafter recited.

For valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignors hereby assign to Assignee all of Assignors' right, title and interest in and to the Invention, all improvements therein, the Application and all priority rights arising therefrom, and any applications and/or patents, and any reissues and extensions thereof, which issue in any country upon any patent applications which correspond with any of the following: the Application; any application that claims priority from the Application (including utility applications, divisionals, continuations, continuations-in-part, international applications and/or any foreign regional and/or national applications), or any application based in whole or in part on any of the foregoing.

Assignors agree that such Assignors and Assignors' heirs and legal representatives will, without further consideration, cooperate with Assignee in the prosecution of all of the above applications, execute, verify, acknowledge and deliver all such further papers, including applications for patents and for reissues and extensions therefor, and instruments of assignment and transfer thereof, and will communicate any facts known to Assignors relating to the Invention, to obtain or maintain or enforce patents for the Invention and improvements therein in any and all countries and to vest title thereto in Assignee. Assignors further agree that such Assignors will, without further compensation to Assignors during the term of such Assignors' employment by Assignee and thereafter for reasonable compensation as determined by Assignee, perform such other acts as may be reasonably required when requested by Assignee, including attending depositions, preparing and executing declarations

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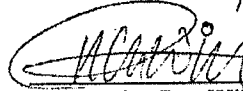
IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this \_\_\_\_ day of \_\_\_\_ (Month/Year)

\_\_\_\_\_  
Alexander B. Limanov

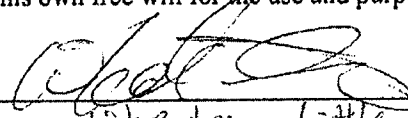
On this \_\_\_\_ day of \_\_\_\_ (Month/Year), Alexander B. Limanov, personally known to me to be the same individual who executed the foregoing Assignment, and who acknowledged to me that execution of the same was of his own free will for the use and purposes therein set forth.

WITNESS: \_\_\_\_\_  
Printed Name: \_\_\_\_\_  
Residential Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 7 day of 7/2010 (Month/Year)

  
\_\_\_\_\_  
Paul C. Van Der Wilt

On this 7<sup>th</sup> day of July 2010 (Month/Year), Paul C. Van Der Wilt, personally known to me to be the same individual who executed the foregoing Assignment, and who acknowledged to me that execution of the same was of his own free will for the use and purposes therein set forth.

WITNESS:   
Printed Name: Wheaton Little  
Residential Address: 617 W 142<sup>nd</sup> St Apt 5  
NY NY 10031  
\_\_\_\_\_  
\_\_\_\_\_