

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT				
NATURE OF CONVEYANCE:	ASSIGNMENT				
CONVEYING PARTY DATA					
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>James Im</td> <td>11/27/2012</td> </tr> </tbody> </table>		Name	Execution Date	James Im	11/27/2012
Name	Execution Date				
James Im	11/27/2012				
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				
City:	New York				
State/Country:	NEW YORK				
Postal Code:	10027				
PROPERTY NUMBERS Total: 1					
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13019042</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13019042
Property Type	Number				
Application Number:	13019042				
CORRESPONDENCE DATA					
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<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>					
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ATTORNEY DOCKET NUMBER:	19240.1002US1				
NAME OF SUBMITTER:	Larissa Bifano Park				
Total Attachments: 3 source=US1_Assignment_103398979#page1.tif source=US1_Assignment_103398979#page2.tif source=US1_Assignment_103398979#page3.tif					

OP \$40.00 13019042

ASSIGNMENT BY INVENTOR

THIS ASSIGNMENT, made by James S. IM (hereinafter referred to as Assignor), residing at 2828 Broadway, Apt. 9E, New York, New York 10025;

WHEREAS, Assignor has invented certain new and useful improvements in SINGLE-SHOT SEMICONDUCTOR PROCESSING SYSTEM AND METHOD HAVING VARIOUS IRRADIATION PATTERNS, set forth in a Patent application for Letters Patent of the United States, already filed on February 1, 2011 as U.S. Application No. 13/019,042; and

WHEREAS, THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK, a University organized under and pursuant to the laws of United States of America having its principal place of business at 412 Low Memorial Library, 535 West 116th Street, New York, New York 10027 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefore and thereon.

NOW, THEREFORE, in consideration of good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor hereby assigns to Assignee all of Assignor's right, title and interest in the Invention, all improvements therein, the Application and all priority rights arising therefrom, and any 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 or any foreign regional or national applications), or any application based in whole or in part on any of the foregoing.

Assignor agrees that such Assignor and Assignor's 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 Assignor 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. Assignor further agrees that such Assignor will, without further compensation to Assignor during the term of such Assignor's 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 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.

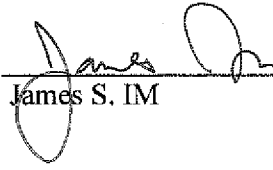
AND Assignor hereby grants the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document:

COLUMBIA UNIVERSITY

All practitioners at Customer Number 56949

AND Assignor acknowledges an obligation of assignment of this invention to Assignee at the time the invention was made.

NOV 27, 2012
Date


James S. IM

Witness:

Date
