

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT2896031

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>JUNG HAN</td><td>05/12/2014</td></tr><tr><td>JIE SONG</td><td>05/12/2014</td></tr><tr><td>DANTI CHEN</td><td>05/12/2014</td></tr></tbody></table>	Name	Execution Date	JUNG HAN	05/12/2014	JIE SONG	05/12/2014	DANTI CHEN	05/12/2014	
Name	Execution Date								
JUNG HAN	05/12/2014								
JIE SONG	05/12/2014								
DANTI CHEN	05/12/2014								
RECEIVING PARTY DATA									
Name:	YALE UNIVERSITY								
Street Address:	TWO WHITNEY AVENUE								
City:	NEW HAVEN								
State/Country:	CONNECTICUT								
Postal Code:	06511								
PROPERTY NUMBERS Total: 1									
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>PCT Number:</td><td>US2014029219</td></tr></tbody></table>	Property Type	Number	PCT Number:	US2014029219					
Property Type	Number								
PCT Number:	US2014029219								
CORRESPONDENCE DATA									
Fax Number:	(617)646-8646								
<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:	6176468000								
Email:	patents_jamesm@wolfgreenfield.com								
Correspondent Name:	JAMES H. MORRIS								
Address Line 1:	WOLF GREENFIELD								
Address Line 2:	600 ATLANTIC AVENUE								
Address Line 4:	BOSTON, MASSACHUSETTS 02210								
ATTORNEY DOCKET NUMBER:	Y0087.70079WO00								
NAME OF SUBMITTER:	CRENA PACHECO								
SIGNATURE:	/Crena Pacheco/								
DATE SIGNED:	06/12/2014								
Total Attachments: 3									
source=Assignment#page1.tif									
source=Assignment#page2.tif									
source=Assignment#page3.tif									

502849434

PATENT
REEL: 033091 FRAME: 0001

ASSIGNMENT

WHEREAS, we, Jung Han, Jie Song and Danti Chen have invented a certain improvement in LARGE-AREA, LATERALLY-GROWN EPITAXIAL SEMICONDUCTOR LAYERS described in an application for Letters Patent, the specification of which:

- is being executed on even date herewith; and is about to be filed in the United States Patent Office;
- was filed on **March 14, 2014** as International (PCT) Application No. **PCT/US2014/29219**
- was patented under U.S. Patent No. _____ on _____.

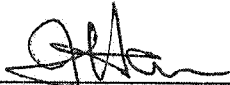
WHEREAS, **Yale University**, (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the State of Connecticut, having principal offices at Two Whitney Avenue, New Haven, Connecticut 06511 desires to acquire an interest therein in accordance with agreements duly entered into with us;


NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, our entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with our entire right, title and interest in and to said application and such Letters Patent as may issue thereon, and any reissue, continuation, divisional and foreign counterparts thereof and including the right to claim priority under any applicable statute, treaty or convention based on said application; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent, all choses in action pertaining to the applications or Letters Patent including the right to sue for and collect damages and other recoveries for past infringement thereof, all rights to initiate proceedings before government and administrative bodies, and all files, records and other materials arising from the prosecution, exploitation, or defense of rights and registrations pertaining to the applications or Letters Patent. We hereby acknowledge that this assignment, being of our entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any

and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

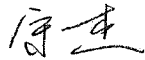
AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;


AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

Inventor  Date 5-12-2014
Jung Han

Witness Arlene Ciociola 
Printed Name Signature


Address Yale University, PO Box 208284, New Haven CT 06520-8284

Inventor  Date 05-12-2014
Jie Song

Witness Arlene Ciociola 
Printed Name Signature

Address Yale University, PO Box 208284, New Haven CT 06520-8284

Inventor  Date May 12th, 2014
Danti Chen

Witness Arlene Ciociola 
Printed Name Signature

Address Yale University PO Box 208284 New Haven CT
06520-8284