

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT2950238

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
MATTHEW MEITL	07/02/2014
CHRISTOPHER BOWER	07/02/2014
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	SEMPRIUS, INC.
<b>Street Address:</b>	4915 PROSPECTUS DRIVE, SUITE C
<b>City:</b>	DURHAM
<b>State/Country:</b>	NORTH CAROLINA
<b>Postal Code:</b>	27713
<b>PROPERTY NUMBERS Total: 3</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14213046
<b>PCT Number:</b>	US2014028599
<b>Application Number:</b>	61788452
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(720)931-3001
<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>	
<b>Phone:</b>	7209313000
<b>Email:</b>	rfriedland@lathropgage.com
<b>Correspondent Name:</b>	RONALD FRIEDLAND
<b>Address Line 1:</b>	4845 PEARL EAST CIRCLE, SUITE 201
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<b>ATTORNEY DOCKET NUMBER:</b>	551958: 116-13 US
<b>NAME OF SUBMITTER:</b>	GARY B. CHAPMAN
<b>SIGNATURE:</b>	/gbchapman51279/
<b>DATE SIGNED:</b>	07/23/2014
<b>Total Attachments: 3</b>	
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source=116-13_US_WO_exd_assignment#page3.tif	

**ASSIGNMENT**

WHEREAS, WE:

1. **Matthew MEITL**, residing at 5100 Carolwood Lane, Durham, North Carolina, 27713, United States of America;
2. **Christopher BOWER**, residing at 728 Richmond St., Raleigh, North Carolina, 27609, United States of America;

(herein called "ASSIGNORS"), are the inventors of the invention entitled:

**"Through-Silicon Vias and Interposers Formed by Metal-Catalyzed Wet Etching";**

for which the following patent application(s):

Application Type	Application Serial No.	Filing Date
United States Patent Application	14/213,046	March 14, 2014
International Application (WO)	PCT/US14/28599	March 14, 2014
U.S. Provisional Application	61/788,452	March 15, 2013

were submitted or filed (collectively, the "LISTED APPLICATIONS");

AND WHEREAS, **SEMPRIUS, INC.** (herein called "ASSIGNEE"), an entity organized and existing under the laws of the State of North Carolina, having a principal place of business at:

4915 Prospectus Drive, Suite C  
Durham, NC 27713  
United States of America,

is desirous of obtaining our entire right, title and interest in, to and under the said invention and the said application(s);

NOW, THEREFORE, in consideration of my contractual and other legal obligations, and other good and valuable consideration, the receipt of which is hereby acknowledged, I, a said ASSIGNOR, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, my entire right, title and interest in, to and under the said invention, and the said United States Application and all divisions, renewals, continuations and subsequent applications thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States; together with the right to file such applications and the right to claim for the same the priority of said patent applications listed herein and applications thereof and therefrom under The International Union for the Protection of Industrial

Property, or any other international agreement or the domestic laws of the country in which any such application and applications thereof and therefrom is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;

AND I HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any official of any country or countries foreign to the United States whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument;

AND I HEREBY covenant and agree that I have full right to convey the entire interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith;

AND I HEREBY authorize the above-mentioned ASSIGNEE or its legal representative to insert in this instrument the filing date and serial number of said application(s) or any other information that 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;

AND I HEREBY further covenant and agree that I will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all continuing and subsequent applications, including divisional, reissue and foreign applications, make all rightful oaths, and generally cooperate and do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain, maintain, and enforce proper protection for said invention in any and all countries;

IN TESTIMONY WHEREOF, I hereunto set my hand and seal (if applicable) the day and year set opposite my signature.

7/2/14  
Date

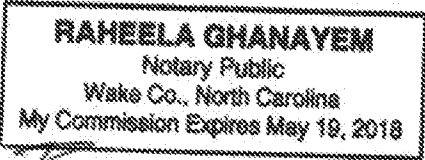
[Signature]  
MATTHEW MEITL

STATE OF North Carolina }  
COUNTY OF Durham } ss.

BEFORE ME, the undersigned authority, on this 2 day of July (month), 2014 (year), personally appeared the above person, known to me to be the person whose name is subscribed to this instrument and who acknowledged to me that s/he executed the same of his/her own free will for the purposes and consideration herein expressed.

Date: 7-2-14 Raheela Ghanayem  
Notary Public

My Commission expires: May 19, 2018



7/2/14  
Date

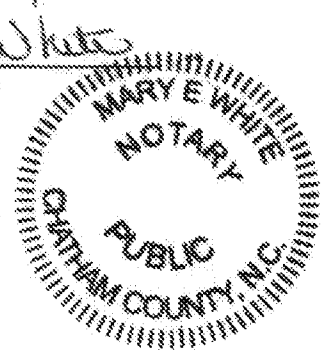
Christopher Bower  
CHRISTOPHER BOWER

STATE OF North Carolina }  
COUNTY OF Durham } ss.

BEFORE ME, the undersigned authority, on this 2<sup>nd</sup> day of July (month), 2014 (year), personally appeared the above person, known to me to be the person whose name is subscribed to this instrument and who acknowledged to me that s/he executed the same of his/her own free will for the purposes and consideration herein expressed.

Date: 7/2/14 Mary E White  
Notary Public

My Commission expires: 11/25/16



Additional Assignors on additional sheets: No