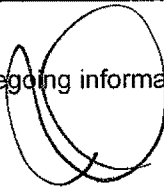


Client Code: IMEC654.001AUS

**RECORDATION FORM COVER SHEET  
PATENTS ONLY**

To the Director, U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof.

<p>1. Name of conveying party(ies): (List using letters or numbers for multiple parties)</p> <p>Geert Van der Plas Erik-Jan Marinissen Nikolaos Minas Paul Marchal</p> <p>Additional name(s) of conveying party(ies) attached?</p> <p>( ) Yes (X) No</p>	<p>2. Name and address of receiving party(ies):</p> <p><b>Name:</b> IMEC <b>Street Address:</b> Kapeldreef 75 <b>City:</b> Leuven <b>Country:</b> Belgium <b>ZIP:</b> 3001</p> <p>Additional name(s) of receiving party(ies) attached?</p> <p>( ) Yes (X) No</p>
<p>3. Nature of conveyance:</p> <p>(X) Assignment ( ) Security Agreement ( ) Merger ( ) Change of Name ( ) Other:</p> <p>Execution Date: (List as in section 1 if multiple signatures)</p> <p>November 8, 2010 November 10, 2010 November 8, 2010 December 12, 2010</p>	<p>4. US or PCT Application number(s) or US Patent number(s):</p> <p>(X) Patent Application No.: 12/891,658 Filing Date: September 27, 2010</p> <p>Additional numbers attached?</p> <p>( ) Yes (X) No</p>
<p>5. Party to whom correspondence concerning document should be mailed:</p> <p><b>Customer No.</b> 20,995 <b>Address:</b> Knobbe, Martens, Olson &amp; Bear, LLP 2040 Main Street, 14<sup>th</sup> Floor Irvine, CA 92614 <b>Return Fax:</b> (949) 760-9502 <b>Attorney's Docket No.:</b> IMEC654.001AUS</p>	<p>6. Total number of applications and patents involved: 1</p>
<p>7. Total fee (37 CFR 1.21(h)): \$40</p> <p>(X) Authorized to be charged to deposit account</p>	<p>8. Deposit account number: 11-1410</p> <p>Please charge this account for any additional fees which may be required, or credit any overpayment to this account.</p>
<p>9. Statement and signature.</p> <p>To the best of my knowledge and belief, the foregoing information is true and correct, and any attached copy is a true copy of the original document.</p> <div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="width: 30%;"> <p><u>John M. Carson</u> Name of Person Signing</p> <p>34,303 Registration No.</p> </div> <div style="width: 30%; text-align: center;">   <p>Signature</p> </div> <div style="width: 30%; text-align: right;"> <p><u>1/13/11</u> Date</p> </div> </div> <p>Total number of pages including cover sheet, attachments and document: 6</p>	

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**PATENT**  
**REEL: 025642 FRAME: 0779**

CH \$40.00 111410 12891658

Application No.: 12/891,658  
Filing Date: September 27, 2010

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### ASSIGNMENT

WHEREAS, Geert Van der Plas, a Belgian citizen, residing at Leuven, Belgium; Erik-Jan Marinissen, a Dutch citizen, residing at Leuven, Belgium; Nikolaos Minas, a Greek citizen, residing at Kessel-Lo, Belgium; and Paul Marchal, a Belgian citizen, residing at Blanden, Belgium (individual(s) hereinafter "ASSIGNOR") invented certain new and useful improvements, technology, inventions, developments, ideas or discoveries related to METHOD AND DEVICE FOR TESTING TSVS IN A 3D CHIP STACK (collectively hereinafter referred to as the "Work") for which an application for Letters Patent in the United States has been prepared for filing (identified above) with the United States Patent and Trademark Office (hereinafter the "Application");

AND WHEREAS, IMEC, with its principal place of business at Kapeldreef 75, 3001 Leuven, Belgium (hereinafter the "ASSIGNEE"), desires to acquire the entire right, title, and interest in and to the Application and the Work:

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby acknowledges that ASSIGNOR has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, unto said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title, and interest throughout the world in the Application and the Work, including all provisional applications relating thereto (including but not limited to U.S. Provisional Application No(s). 61/246,458, filed September 28, 2009; (respectively if plural applications)), and all nonprovisional applications claiming priority thereto, including, all divisions, continuations-in-part, reissues, and reexaminations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and any related Letters Patent which may hereafter be granted or filed in any country or countries foreign to the United States, all extensions, renewals and reissues thereof; and ASSIGNOR hereby authorizes and requests the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all related Letters Patent to the ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND ASSIGNOR DOES HEREBY sell, assign, transfer, and convey to ASSIGNEE, its successors, legal representatives, and assigns all claims for damages and all remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of assignment to ASSIGNEE, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of said Letters Patent before or after issuance.

AND ASSIGNOR DOES HEREBY covenant and agree that ASSIGNOR will communicate to said ASSIGNEE, its successors, legal representatives and assigns, any facts known to ASSIGNOR respecting the Work, and testify in any legal proceeding, assist in the preparation of any other provisional or non-provisional applications relating to the Application and the Work or any improvements made thereto, sign all lawful papers, execute and make all rightful oaths and/or declarations in connection with the Application and the Work including any improvements made thereto, any patent applications filed therefrom, and any continuing application filed from any of the aforementioned applications, and generally do everything possible to aid the ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for the Work in all countries.

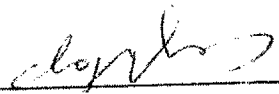
Application No.: 12/891,658  
Filing Date: September 27, 2010

Docket Number: IMEC654.001AUS  
Page 2 of 5

This 8<sup>th</sup> day of November, 2010.



Geert Van der Plas

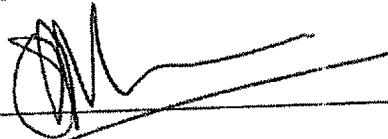
Witnessed by: 

Printed Name: Jongheon Cho

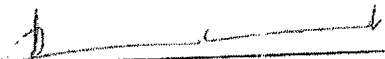
Application No.: 12/891,658  
Filing Date: September 27, 2010

Docket Number: IMEC654.001AUS  
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This 10 day of November 20 10.



Erik-Jan Marinissen

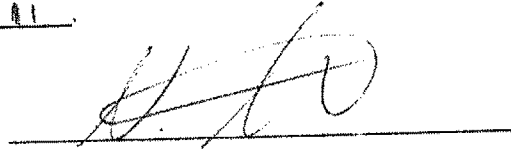
Witnessed by: 

Printed Name: Ingeborg Boerinkamp

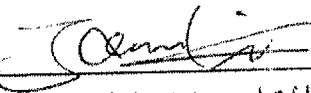
Application No.: 12/891,658  
Filing Date: September 27, 2010

Docket Number: IMEC654.001AUS  
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This 08 day of November, 2011.



Nikolaos Minas

Witnessed by   
Printed Name: JAEMIN KIM

Application No.: 12/891,658  
Filing Date: September 27, 2010

Docket Number: IMEC654.001AUS  
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This 12 day of December, 20 10.

Paul Marchal

Witnessed by: Ingemar Berenham

Printed Name: Ingemar Berenham

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