

Client Code: ASMJP.239AUS

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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>1. Woo Jin Lee 2. Atsuki Fukazawa 3. Nobuo Matsuki</p> <p>Additional name(s) of conveying party(ies) attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>2. Name and address of receiving party(ies):</p> <p><b>Name:</b> ASM JAPAN K.K. <b>Street Address:</b> 23-1, 6-chome, Nagayama, Tama-shi, Tokyo 206-0025, Japan</p> <p>Additional name(s) of receiving party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>3. Nature of conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Security Agreement <input type="checkbox"/> Merger <input type="checkbox"/> Change of Name <input type="checkbox"/> Other:</p> <p>Execution Date: (List as in section 1 if multiple signatures)</p> <p>(1) June 6, 2008 (2) June 6, 2008 (3) June 16, 2008</p>	<p>4. US or PCT Application number(s) or US Patent number(s):</p> <p><input checked="" type="checkbox"/> Patent Application No.: 12/130,522 Filing Date: May 30, 2008</p> <p>Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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></p>	<p>6. Total number of applications and patents involved: 1</p>
<p>7. Total fee (37 CFR 1.21(h)): \$40</p> <p><input checked="" type="checkbox"/> 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> <p><u>Adeel S. Akhtar</u> Name of Person Signing</p> <p><u>41,394</u> Registration No.</p> <p><u><i>Adeel S. Akhtar</i></u> Signature</p> <p><u>July 31, 2008</u> Date</p> <p>Total number of pages including cover sheet, attachments and document: 3</p>	

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### ASSIGNMENT

WHEREAS, WE, Woo Jin Lee, a Korea citizen, residing at Tama-shi, Tokyo, Japan, Atsuki Fukazawa, residing at Tama-shi, Tokyo, Japan and Nobuo Matsuki, residing at Kawasaki-shi, Kanagawa, Japan have invented certain new and useful improvements in a DEVICE ISOLATION TECHNOLOGY ON SEMICONDUCTOR SUBSTRATE for which we have filed an application for Letters Patent in the United States, Application No. 12/130,522, Filing Date May 30, 2008;

AND WHEREAS, ASM JAPAN K.K. (hereinafter "ASSIGNEE"), a Japanese Corporation, with its principal place of business at 23-1, 6-chome, Nagayama, Tama-shi, Tokyo 206-0025, JAPAN, desires to acquire the entire right, title, and interest in and to said improvements and said Application:

NOW, THEREFORE, in return for good and valuable consideration, the receipt of which is hereby acknowledged, we, said inventors, do hereby acknowledge that we have sold, assigned, transferred and set over, and by these presents do 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, to and under said improvements, and said application including all provisional applications relating thereto and all divisions, renewals and continuations 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 applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and we hereby authorize and request 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 Letters Patent for said improvements to said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE DO 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 WE HEREBY covenant and agree that we will communicate to said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

Application No.: 12/130,522  
Filing Date: May 30, 2008

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IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 6 day of  
JUNE, 2008

*李 禹 鎮*

Woo Jin Lee

*Junya Morimoto*

Witness Signature

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 6<sup>th</sup> day of  
JUNE, 2008

*深 澤 篤 毅*

Atsuki Fukazawa

*Junya Morimoto*

Witness Signature

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 16 day of  
June, 2008

*Nobuo Matsuki*

Nobuo Matsuki

*Junya Morimoto*

Witness Signature

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