

RECORDATION
PATE

01-23-2004



102653118

iereof.

TO THE ASSISTANT COMMISSIONER FOR PATENTS: Please

1. Name of conveying party: (If multiple assignors, list numerically)

ASM America, Inc.

Additional name(s) of conveying party attached?

() Yes (X) No

2. Name and address of receiving parties:

Name: Interuniversitair MicroElectronica Centrum VZW
(IMEC)**Internal Address:** Kapeldreef 75, 3001
Leuven, Belgium

Additional name(s) of receiving party(ies) attached?

(X) Yes () No

3. Nature of conveyance:

(X) Assignment
() Merger
() Security Agreement
() Change of Name
() Other:

Execution Date: (If multiple assignors, list execution dates in numerical order corresponding to numbers indicated in 1 above) January 14, 2004

4. Application numbers or Patent numbers:

(X) Patent Application No.: 104731,656
Filing Date: December 8, 2003

(X) Patent No.: 6,664,192
Issue Date: December 16, 2003

(X) Patent No.: 6,391,785
Issue Date: May 21, 2002

Additional numbers attached? () Yes (X) No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Andrew N. Merickel
KNOBBE, MARTENS, OLSON & BEAR, LLP
Customer No. 20,995

Internal Address: Fourteenth Floor**Street Address:** 2040 Main Street**City:** Irvine **State:** CA **ZIP:** 92614**Attorney's Docket No.:** IMEC182.001AUS

7. Total fee (37 CFR 1.21(h)): \$120

(X) Enclosed

(X) Authorized to be charged to deposit account if any additional fees are required, or to credit any overpayment

8. Deposit account number: 11-1410

Please charge this account for any additional fees which may be required, or credit any overpayment to this account.

6. Total number of applications and patents involved: 3

9. Statement and signature.

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.

Andrew N. Merickel
Name of Person Signing

Signature

Date

53,317
Registration No.

Total number of pages including cover sheet, attachments and document: 4

Mail documents to be recorded with required cover sheet information to:

Mail Stop Assignment Recordation Services
Director, U.S. Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

OPR/FINANCE

2. Name and address of receiving party(ies):

Name: ASM International NV

Internal Address: Jan Van Eycklaan 10, 3723BC
Bilthoven, The Netherlands

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ASSIGNMENT

WHEREAS, ASM America, Inc., a U.S. corporation having offices at 3440 University Drive, Phoenix, AZ 85034-7200 (hereinafter "ASSIGNOR") , represents and warrants that it is the assignee of record for certain new and useful improvements disclosed in the following United States issued Letters Patents and pending applications in the United States (hereinafter "the Patents"):

<u>Patent No.</u>	<u>Issue Date</u>	<u>Title</u>
6,391,785	May 21, 2002	METHOD OF BOTTOMLESS DEPOSITION OF BARRIER LAYERS IN INTEGRATED CIRCUIT METALLIZATION SCHEMES

<u>Application No.</u>	<u>Filing Date</u>	<u>Title</u>
10/123,492	April 15, 2002	METHOD OF BOTTOMLESS DEPOSITION OF BARRIER LAYERS IN INTEGRATED CIRCUIT METALLIZATION SCHEMES

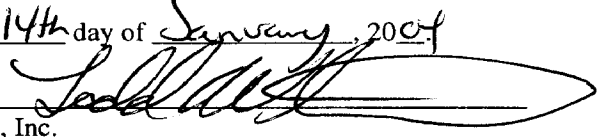
WHEREAS, Interuniversitair MicroElectronica Centrum VZW (IMEC), a Belgium corporation having offices at Kapeldreef 75, 3001 Leuven, Belgium, and ASM International NV, a Netherlands corporation having offices at Jan Van Eycklaan 10, 3723BC Bilthoven, the Netherlands (hereinafter "ASSIGNEES") desire to purchase the entire right, title, and interest in and to the inventions disclosed in the Patents;

NOW, THEREFORE, in return for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby further acknowledges that it has sold, assigned, and transferred, and by these presents does hereby sell, assign, and transfer, unto ASSIGNEES, their successors, legal representatives, and assigns, any right, title, and interest throughout the world in, to, and under the said improvements, and the said Patents and all Patents that may be granted thereon, and all provisional applications relating thereto, and all divisions, continuations, reissues, reexaminations, renewals, and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent that may hereafter be filed for said improvements or for the said Patents in any country or countries foreign to the United States; and ASSIGNOR hereby authorizes and requests the Commissioner of Patents of the United States, and any Official of any country foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements and all Letters Patents resulting from the Patents to ASSIGNEES, their successors, legal representatives, and assigns, in accordance with the terms of this Agreement.

ASSIGNOR does hereby sell, assign, transfer, and convey to ASSIGNEES, their 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 ASSIGNEES, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of the said issued Letters Patents;

ASSIGNOR hereby covenants and agrees that it will communicate to ASSIGNEES, their successors, legal representatives, and assigns any facts known to ASSIGNOR respecting the Patents immediately upon becoming aware of those facts, and that it will testify in any legal proceeding involving any of the Patents, will sign all lawful papers, execute all divisional, continuing, and reissue applications, make all rightful oaths, and will generally do everything possible to aid ASSIGNEES, their successors, legal representatives, and assigns to obtain and enforce the Patents in all countries.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 14th day of January, 2004



ASM America, Inc.

By: Todd Westersund

Name Printed: _____

Title: Intellectual Property Officer

Date: January 14, 2004

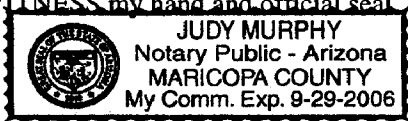
STATE OF _____
COUNTY OF _____

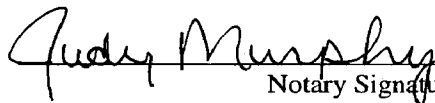
}
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ss.

On January 14, 2004, before me, Judy Murphy, personally appeared personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity(ies), and that by his signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal

[SEAL]





Notary Signature

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