

TO THE ASSISTANT COMMISSIONER FOR PATENT

102483162

ts or copy thereof.

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

- 1. Marko Tuominen
- 2. Eric Shero
- 3. Mohith Verghese

6-16-03

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

Name: ASM International N.V.
Internal Address: Jan van Eycklaan 10
 3723 BC Bilthoven
 The Netherlands

Additional name(s) of conveying party(ies) attached?
() Yes (X) No

Additional name(s) of receiving party(ies) attached?
() Yes (X) No

3. Nature of conveyance:

- 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)

- 1. June 11, 2003
- 2. June 13, 2003
- 3. June 12, 2003

4. Application number(s) or Patent number(s):

- (X) Application(s) filed herewith
 Execution Date(s): 1. June 11, 2003
 2. June 13, 2003
 3. June 12, 2003

- () Patent Application No.: 10463309
 Filing Date:
- () Patent No.:
 Issue Date:

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.: ASMMC.041AUS

7. Total fee (37 CFR 1.21(h)): \$40

- (X) Enclosed
- () Authorized to be charged to deposit account

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: 1

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

Andrew N. Merickel
Signature

June 16, 2003
Date

53,317
Registration No.

Total number of pages including cover sheet, attachments and document: 3

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

ASSIGNMENT

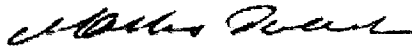
WHEREAS, We, Marko Tuominen, a Finnish citizen, residing at Ristolantie 3 A 13, FIN-00320, Helsinki, FINLAND, Eric Shero, a U.S. citizen, residing at 3820 N. 30th Street, Phoenix, AZ 85016, and Mohith Verghese, a Indian citizen, residing at 6102 N. 22nd Drive, Phoenix, AZ 85015, have invented certain new and useful improvements in a SYSTEM FOR CONTROLLING THE SUBLIMATION OF REACTANTS for which we have filed an application for Letters Patent in the United States, on June 17, 2002;

AND WHEREAS, ASM International N.V. (hereinafter "ASSIGNEE"), a Dutch Corporation, with its principal place of business at Jan van Eycklaan 10, 3723 BC Bilthoven, The Netherlands, desires to acquire the entire right, title, and interest in and to the said improvements and the said Application:

NOW, THEREFORE, in return for good and valuable consideration, the receipt of which is hereby acknowledged, we, the 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 the said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title, and interest throughout the world in, to and under the said improvements, and the said application and 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 the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we will communicate to the 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 the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 17th day of June, 2003



Marko Tuominen

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 13th day of JUNE, 2003

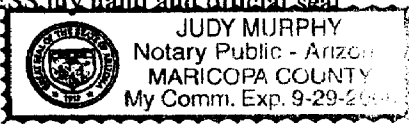

Eric Shero

STATE OF ARIZONA }
 } ss.
COUNTY OF MARICOPA }

On _____, before me, _____, personally appeared Eric Shero personally known to me to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

[SEAL]



Notary Signature

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 12 day of JUNE, 2003.


Mohith Verghese

STATE OF ARIZONA }
 } ss.
COUNTY OF MARICOPA }

On June 12, 2003, before me, Judy Murphy, personally appeared Mohith Verghese personally known to me to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

[SEAL]




Notary Signature