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TO THE ASSISTANT COMMISSIONER FOR

102100880

documents or copy thereof.

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

Michael A. Todd

5-23-02

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

() Yes (X) No

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

Name: ASM America, Inc.

Internal Address:

Street Address: 3440 E. University Drive

City: Phoenix State: AZ ZIP: 85034-7200

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) April 22, 2002

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

() Application(s) filed herewith Execution Date(s):

(X) Patent Application No.: 10/074,149
Filing Date: February 11, 2002

() 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: Joseph J. Mallon
 KNOBBE, MARTENS, OLSON & BEAR, LLP
 Customer No. 20,995
 Internal Address: Sixteenth Floor
 Street Address: 620 Newport Center Drive
 City: Newport Beach State: CA ZIP: 92660
 Attorney's Docket No.: ASMEX.293A

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

(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: 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.

Joseph J. Mallon
Name of Person Signing

Joseph J. Mallon
Signature

May 21, 2002
Date

39,287
Registration No.

Total number of pages including cover sheet, attachments and document: 2

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

05/23/2002 DBYRNE 00000178 10074149
 01 FC:581 40.00/OP

U.S. Patent and Trademark Office
 Attn: Assignment Division
 Crystal Gateway-4
 1213 Jefferson Davis Highway, Suite 320
 Arlington, VA 22202

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ASSIGNMENT

WHEREAS, I, **Michael A. Todd**, a United States citizen, residing at residing at 7041 N. 14th Place, Phoenix, AZ 85020, have invented certain new and useful improvements in a **DOPANT PRECURSORS AND PROCESSES** for which I have filed an application for Letters Patent in the United States, **10/074,149**, on **February 11, 2002**;

AND WHEREAS, ASM AMERICA, INC. (hereinafter "ASSIGNEE"), a Delaware Corporation, with its principal place of business at 3440 E. University Drive, Phoenix, AZ 85034-7200, 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, I, the said inventor, do hereby acknowledge that I have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, 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 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 I 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, successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND I HEREBY covenant and agree that I will communicate to the said ASSIGNEE, successors, legal representatives and assigns, any facts known to me 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, successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

IN TESTIMONY WHEREOF, I here into set my hand and seal this 22nd day of April, 2002.

Michael A. Todd
Michael A. Todd

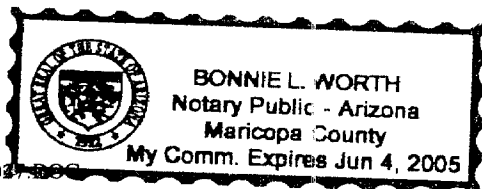
STATE OF Arizona
COUNTY OF Maricopa

] ss.

On April 22, 2002, before me, Bonnie L. Worth, Notary Public, personally appeared **Michael A. Todd** 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]



Bonnie L. Worth
Notary Signature