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TO THE ASSISTANT COMMISSIONER FOR I

102442021

Documents or copy thereof.

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

- 1) Michael A. Todd
- 2) Keith D. Weeks

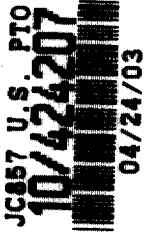
4-24-03

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: 3440 East University Drive
 Street Address: 3440 East 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)

- 1) April 21, 2003
- 2) April 17, 2003

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

Application(s) filed herewith
Execution Date(s): April 17, 2003 and April 21, 2003

Patent Application No.:
Filing Date:

Patent No.:
Issue Date:

10424207

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: Fourteenth Floor
 Street Address: 2040 Main Street
 City: Irvine State: CA ZIP: 92614
 Attorney's Docket No.: ASMEX.400A

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

Enclosed

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

4/24/03
Date

39,287
Registration No.

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

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

05/06/2003 LWEILER 00000102 10424207

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40.00 OP

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

ASSIGNMENT

WHEREAS, We, Michael A. Todd, a United States citizen, residing at 7041 North 14th Place, Phoenix, AZ 85020, and Keith D. Weeks, United States, 438 South Grand, Mesa, AZ 85210, have invented certain new and useful improvements in a METHODS FOR DEPOSITING POLYCRYSTALLINE FILMS WITH ENGINEERED GRAIN STRUCTURES for which we have executed an application for Letters Patent in the United States, on even date herewith;

AND WHEREAS, ASM AMERICA, INC. (hereinafter "ASSIGNEE"), a Delaware Corporation, with its principal place of business at 3440 East Univeristy 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, 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, his 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, his 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 21st day of April, 2003.

Michael A. Todd
Michael A. Todd

STATE OF Arizona }
COUNTY OF Maricopa } ss.

On _____, before me, Judy Murphy, personally appeared Michael A. Todd personally known to me (~~or proved to me on the basis of satisfactory evidence~~) 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]



Judy Murphy
Notary Signature

COPY
DO NOT RECORD

Application No.: Herewith
Filing Date: Herewith

PATENT
Client Code: ASMEX.400A
Page 1

ASSIGNMENT

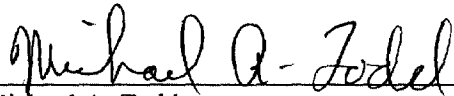
WHEREAS, We, Michael A. Todd, a United States citizen, residing at 7041 North 14th Place, Phoenix, AZ 85020, and Keith D. Weeks, United States, 438 South Grand, Mesa, AZ 85210, have invented certain new and useful improvements in a METHODS FOR DEPOSITING POLYCRYSTALLINE FILMS WITH ENGINEERED GRAIN STRUCTURES for which we have executed an application for Letters Patent in the United States, on even date herewith;

AND WHEREAS, ASM AMERICA, INC. (hereinafter "ASSIGNEE"), a Delaware Corporation, with its principal place of business at 3440 East Univeristy 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, 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, his 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, his 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 21st day of April, 2003.



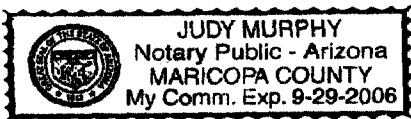
Michael A. Todd


STATE OF Arizona }
 } ss.
COUNTY OF Maricopa }

On _____, before me, Judy Murphy, personally appeared Michael A. Todd personally known to me (~~or proved to me on the basis of satisfactory evidence~~) 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 17 day of April, 2003.

Keith Doran Weeks
Keith D. Weeks

STATE OF Arizona }
COUNTY OF Maricopa } ss.

On April 17, 2003, before me, Judy Murphy, personally appeared Keith D. Weeks personally known to me (~~or proved to me on the basis of satisfactory evidence~~) 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]



Judy Murphy
Notary Signature

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