

08-03-2006

Client Code: ASMEX.523A



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To the Director, U.S. Patent and Trad

103286000

d original documents or copy thereof.

1. Name of conveying party(ies): (List using letters or numbers for multiple parties)

1. Mohith Verghese
2. Kyle Fondurulia
3. Carl White
4. Eric Shero
5. Darko Babic
6. Herbert Terhorst
7. Marko Peussa
8. Min Yan

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

☐ Yes ☒ No

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

**Name:** ASM America, Inc.**Internal Address:****Street Address:** 3440 East University Drive**City:** Phoenix **State:** Arizona**ZIP:** 85034

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

☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Security Agreement  
☐ Merger ☐ Change of Name  
☐ Other:

Execution Date: (List as in section 1 if multiple signatures)

1. May 11, 2006
2. April 26, 2006
3. April 26, 2006
4. May 24, 2006
5. May 1, 2006
6. April 28, 2006
7. July 8, 2006
8. April 28, 2006

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

☒ Patent Application No.: 11/333,127  
 Filing Date: January 17, 2006

Additional numbers attached?

☐ Yes ☒ No

5. Party to whom correspondence concerning document should be mailed:

**Customer No.** 20,995

**Address:** Knobbe, Martens, Olson & Bear, LLP  
 2040 Main Street, 14<sup>th</sup> Floor  
 Irvine, CA 92614

**Return Fax:** (949) 760-9502**Attorney's Docket No.:** ASMEX.523A

6. Total number of applications and patents involved: 1

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.

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.

Rabinder N. Narula

Name of Person Signing

Signature

Date

53,371

Registration No.

Total number of pages including cover sheet, attachments and document: 9

PATENT

REEL: 018139 FRAME: 0755

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## ASSIGNMENT

WHEREAS, We, Mohith Verghese, an Indian citizen, residing at 6102 N. 22<sup>nd</sup> Drive, Phoenix, AZ 85015; Kyle Fondurulia, a US citizen, residing at 4051 E. Yawepe Street, Phoenix, AZ 85044; Carl White a US citizen, residing at 1518 W. Islandia Drive, Gilbert, AZ 85233; Eric Shero, a US citizen, residing at 2548 East Lupine, Phoenix, AZ 85028; Darko Babic, a Yugoslavian citizen, residing at 3791 W. Barcelona Drive, Chandler, AZ 85226; Herbert Terhorst, a Dutch citizen, residing at Albert Schweitzersingel 4a, 3822 BX Amersfoort, The Netherlands; Marko Peussa, a Finnish citizen, residing at Sammal kalliontie 6 B 34, 02210 Espoo, Finland; Min Yan, a P.R. China citizen, residing at Braamgaarde 55, 3436 GM Nieuwegein, The Netherlands, have invented certain new and useful improvements in a **REACTION SYSTEM FOR GROWING A THIN FILM** for which we have filed an application for Letters Patent in the United States, 11/333,127 on January 17, 2006;

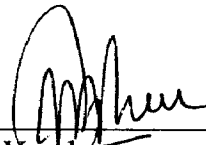
AND WHEREAS, ASM AMERICA, INC. (hereinafter "ASSIGNEE"), a Delaware Corporation, with its principal place of business at 3440 East University Drive, Phoenix, AZ 85034, desires to acquire the entire right, title, and interest in and to the said improvements and the said Application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to me in hand paid, and other 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 DO HEREBY sell, assign, transfer, and convey to ASSIGNEE, his 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 the said Letters Patent before or after issuance.

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 11<sup>th</sup> day of May, 2006

  
Mohith Verghese


STATE OF Arizona }  
COUNTY OF Maricopa } ss.

On 5/11/06, before me, Cammie Lopez, personally appeared Mohith Verghese 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

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 26<sup>th</sup> day of April, 2006

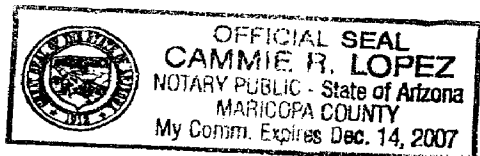
  
Kyle Fondurulia

STATE OF Arizona }  
COUNTY OF Maricopa } ss.

On 4/26/06, before me, Cammie Lopez, personally appeared Kyle Fondurulia 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

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 26 day of April, 2006.

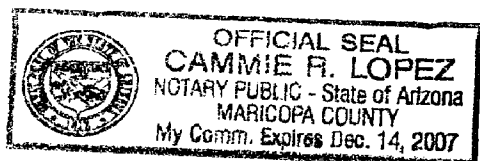
Carl L. White  
Carl White

STATE OF Arizona }  
COUNTY OF Maricopa } ss.

On 4/26/06, before me, Cammie Lopez, personally appeared Carl White 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]



Cammie Lopez  
Notary Signature

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 24<sup>th</sup> day of May, 2006

Eric J. Shero  
Eric Shero

STATE OF Arizona }  
COUNTY OF Maricopa } ss.

On 5/24/06, before me, Cammie Lopez, personally appeared Eric Shero 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]



Cammie Lopez  
Notary Signature

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 1<sup>st</sup> day of May, 2006

Darko Babic  
Darko Babic

STATE OF Arizona }  
COUNTY OF Maricopa } ss.

On May 1, 2006, before me, Sarah L. Rogers, personally appeared Darko Babic 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]



Sarah L. Rogers  
Notary Signature

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

\_\_\_\_\_  
Herbert Terhorst

STATE OF \_\_\_\_\_ }  
COUNTY OF \_\_\_\_\_ } ss.

On \_\_\_\_\_, before me, \_\_\_\_\_, personally appeared Herbert Terhorst 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

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

\_\_\_\_\_  
Darko Babic

STATE OF \_\_\_\_\_ }  
COUNTY OF \_\_\_\_\_ } ss.

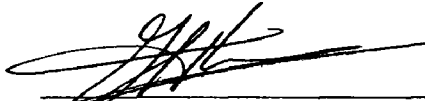
On \_\_\_\_\_, before me, \_\_\_\_\_, personally appeared Darko Babic personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity(ies), 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

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 28<sup>th</sup> day of April, 2006.

  
\_\_\_\_\_  
Herbert Terhorst

STATE OF \_\_\_\_\_ }  
COUNTY OF \_\_\_\_\_ } ss.

On \_\_\_\_\_, before me, \_\_\_\_\_, personally appeared Herbert Terhorst 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

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 8<sup>th</sup> day of July, 2006

  
Marko Penssa

  
Witness

08.07.2006  
Date

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

\_\_\_\_\_  
Min Yan

STATE OF \_\_\_\_\_ }  
COUNTY OF \_\_\_\_\_ } ss.

On \_\_\_\_\_, before me, \_\_\_\_\_, personally appeared Min Yan 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



Application No.: 11/333,127  
Filing Date: January 17, 2006

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

\_\_\_\_\_  
Marko Peussa

STATE OF \_\_\_\_\_  
COUNTY OF \_\_\_\_\_

}  
} ss.  
}

On \_\_\_\_\_, before me, \_\_\_\_\_, personally appeared Marko Peussa 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

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 28 day of

April, 2006.

\_\_\_\_\_  
Min Yan

STATE OF \_\_\_\_\_  
COUNTY OF \_\_\_\_\_

}  
} ss.  
}

On \_\_\_\_\_, before me, \_\_\_\_\_, personally appeared Min Yan 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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