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

- 1. Kilpela, Olli
- 2. Saanila, Ville
- 3. Li, Wei-min
- 4. Elers, Kai-Erik
- 5. Kostamo, Juhana
- 6. Raaijmakers, Ivo
- 7. Granneman, Ernst

C
6-20-03

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

Name: ASM Microchemistry Oy
Internal Address:
Street Address: P.O. Box 132, 02631 Espoo, Finland

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

Additional name(s) of conveying 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. October 22, 2002
- 2. October 29, 2002
- 3. October 21, 2002
- 4. December 3, 2002
- 5. October 21, 2002
- 6. November 13, 2002
- 7. November 13, 2002

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

() Application(s) filed herewith
Execution Date(s): October 22, 2002

(X) Patent Application No.: 10/222,005
Filing Date: August 14, 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: Gordon H. Olson
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.037AUS

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

(X) Enclosed
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8. Deposit account number: 11-1410

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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.

Rabinder N. Narula
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P-53,371
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documents or copy thereof.

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- 1. Kilpela, ~~Antti~~ *Olli*
- 2. Saanila, Ville
- 3. Li, Wei-min
- 4. Elers, Kai-Erik
- 5. Kostamo, Juhana
- 6. Raaijmakers, Ivo
- 7. Granneman, Ernst

12-23-02

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

Name: ASM Microchemistry Oy
Internal Address:
Street Address: P.O. Box 132, 02631 Espoo, Finland

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

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 () Yes (X) No

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12-17-2002
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 Registration No.

Total number of pages including cover sheet, attachments and document: 6

12/23/2002 6TOM11 00000201 10222005

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Client Code: ASMMC.037AUS

ASSIGNMENT

WHEREAS, We, Olli Kilpelä a Finland citizen, residing at, Hernesaarenkatu 11 A 5, FIN-00150 Helsinki, Finland, Ville Saanila, a Finland citizen, residing at Tupavuori 6 C 27, FIN-00570 Helsinki, Finland, Wei-Min Li, a Finland citizen, residing at Hyljeranta 3 H, FIN-02260 Espoo, Finland, Kai-Erik Elers, a Finland citizen, residing at Harkavaljakontie 7 A 3, FIN-00750 Helsinki, Finland, Juhana Kostamo, a Finland citizen, residing at Timpurinkuja 1 A 1, FIN-02600 Espoo, Finland, and Ivo Raaijmakers, a Netherlands citizen, residing at Soestdijkseweg N 389, 3723 HD Bilthoven, The Netherlands, Ernst Granneman, a Netherlands citizen, residing at Hoge Naarderweg 71a, NL-1217 Hilversum, The Netherlands have invented certain new and useful improvements in a ATOMIC LAYER DEPOSITION REACTOR for which we have filed an application for Letters Patent in the United States;

AND WHEREAS, ASM Microchemistry Oy (hereinafter "ASSIGNEE"), a Corporation of Finland, with its principal place of business at P.O. Box 132, 02631 Espoo, Finland, 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, 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, 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, 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, successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

This is to certify the own hand signature/signatures

of MR. OLLI KILPELA

Esboo

22.10.2002

Ex officio:

Fee P.M.:

Pirjo Halonen

Notary Public



Olli Kilpelä

Olli Kilpela

Date: 22.10.2002

Residence: Hernesaarenkatu 11 A 5
FIN-00150 Helsinki, Finland

Citizenship: Finland

Witness: _____

Date: _____

This is to certify the above own hand signature(s) of

VILLE ANTERO SAANILA

Ville Saanila

Register Office in Hämeenlinna 29.10.2002

Kimmo Luojus
District Registrar
Notary Public



Paid 5€

Witness: _____

Date: _____

Date: 29.10.2002 Hämeenlinna

Residence: Tupavuori 6 C 27
FIN-0570 Helsinki, Finland

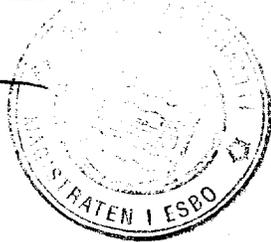
Citizenship: Finland

This is to certify the own hand signature/signatures
of MR. WEI-MIN LI
Espoo

Espoo
Eri-tila
Fees Paid

21.10.2002

Notary Public



Witness: _____

Date: _____

Janet Judah 12-3-02
Washington County Oregon
my commission expires March 22, 2003



Witness: _____

Date: _____

Wei-min Li

Date: 21.10.2002

Residence: Hyljeranta 3 H
FIN-02260 Espoo, Finland

Citizenship: Finland Wei-min Li 21.10.2002

Kai-Erik Elers

Date: 3.12.2002

Residence: ~~Timpurinkuja 1A-1~~ 4408 NW CHANTICLEER DR.
APT 106, PORTLAND (USA)
FIN-02600 Espoo, Finland OR 97229

Citizenship: Finland

Kai Elers 3.12.2002

This is to certify the own hand signature/signatures
of MR. JUHANA KOSTAMO
Espoo

Juhana Kostamo
Juhana Kostamo

Date: 21.10.2002

Executed: 21.10.2002
Fee Paid: [Signature]
Piirjo Laaksonen
Notary Public

Residence: Timpurinkuja 1A1
FIN-12600 Espoo, Finland

Citizenship: Finland



Witness: _____

Date: _____

[Signature]
Ivo Raaijmaker ^(S)

[Signature]
11/13/02

Date: Nov 13, 2002

Residence: Soestdijkseweg N 389
3723 HD Bilthoven, Netherlands

Citizenship: Netherlands

Witness: [Signature]

Date: 13-11-2002

[Signature]
Ernst Granneman

Date: Nov. 13, 2002

Residence: Hoge Naarderweg 71a,
NL-1217 Hilversum, The Netherlands

Citizenship: Netherlands

Witness: [Signature]

Date: 13-11-02



Seen by me, Hajo Bart Hendrik Kraak, civil-law notary in Amsterdam, The Netherlands, for the legalization of the signatures of:

- Mr. I.J.M.M. Raaijmakers, holder of a Dutch Passport with number M01731363, and
- Mr. E.H.A. Granneman, holder of a Dutch Passport with number M14218435.

Amsterdam, 19 November 2002.