

07-17-1998

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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies)

Barry L. Karger  
Frantisek Foret  
Paul M. Zavracky  
E. Nicol McGruer  
Qifeng Xue  
Yuriy M. Dunayevskiy

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

2. Name and address of receiving party(ies)

Name: NORTHEASTERN UNIVERSITY

Internal Address: \_\_\_\_\_

Street Address: 360 Huntington Avenue

City: Boston State: MA Zip: 02115

Additional name(s) & address(es) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

Execution Date: 3/19/98, 3/19/98, 4/6/98, 4/17/98,  
6/16/98, 6/6/98 respectively.

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

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No.(s)

B. Patent No.(s)

08/675,177

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Weingarten, Schurgin, Gagnebin & Hayes LLP  
Ten Post Office Square  
Boston, Massachusetts 02109

6. Total number of applications and patents involved: [1]

7. Total fee (37 CFR 3.41).....\$40.00

- ☒ Enclosed  
☐ Authorized to be charged to deposit account

8. Deposit account number: \_\_\_\_\_

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

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.

Holliday C. Heine, Ph.D.

34,346

Holliday C. Heine  
Signature

6/28/98  
Date

Name of Person Signing

Registration No.

Total number of pages including cover sheet, attachments, and document: [13]

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents and Trademarks, Box Assignments  
Washington, D.C. 20231

A S S I G N M E N T

In consideration of One Dollar and other good and valuable consideration, the receipt of which is hereby acknowledged, we, Barry L. Karger, residing at 62 Deborah Road, Newton, MA 02159, Frantisek Foret, residing at 525 Highland Avenue, #40, Malden, MA 02148, Paul M. Zavracky, residing at 25 Beech Street, Norwood, MA 02062, E. Nicol McGruer, residing at 265 Dedham Street, Dover, MA 02030, Qifeng Xue, residing at ~~838 Hancock Street, No. 26, Hayward, CA 94546~~ <sup>37498 Summer Holly Condon, Fremont, CA</sup>, and, Yuriy M. Dunayevskiy, residing at 1040 Main Street, Apt. #18, Malden, MA 02148, hereby sell and assign to NORTHEASTERN UNIVERSITY, a Massachusetts corporation, having a principal place of business at 360 Huntington Avenue, Boston, MA 02115, its successors and assigns, the entire right, title and interest, including the right to claim priority under the International Convention, throughout the United States, its territories and all foreign countries in and to our invention in

## MICROSCALE FLUID HANDLING SYSTEM

and the application for United States Letters Patent therefor filed on July 3, 1996, Application No. 08/675,177, and such patents as may issue thereon, and all divisions, reissues and continuations and continuations-in-part thereof.

And we hereby covenant that we have full right to make such assignment, and agree for ourselves and our executors and administrators that we will, at the expense of said NORTHEASTERN UNIVERSITY, execute all applications for patents in foreign countries, execute all divisional, continuing, reissue and re-examination applications, make all rightful oaths, sign all lawful papers, testify in any proceeding in which said invention or any application or patent directed thereto may be involved, and generally do everything possible to aid said NORTHEASTERN UNIVERSITY, its successors and assigns, to obtain and enforce proper patent protection for said invention in the United States, its territories and all foreign countries.

And we hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent on said invention or resulting therefrom to NORTHEASTERN UNIVERSITY, its successors and assigns.

NU-388XX

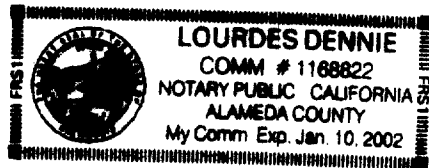
IN WITNESS WHEREOF, we have hereunto set our hands and affixed our seals.

Qifeng Xue  
Qifeng Xue  
State of California  
~~Massachusetts~~  
County of Alameda

Date: 6/16/98

)  
) ss.  
)

Subscribed and sworn to before me by the above-named Qifeng Xue this 16 day of June, 1998.



(Seal)

Lourdes Dennie  
Notary Public

My Commission Expires:

Jan 10 2002

NU-388XX

PATENT

A S S I G N M E N T

In consideration of One Dollar and other good and valuable consideration, the receipt of which is hereby acknowledged, we, Barry L. Karger, residing at 62 Deborah Road, Newton, MA 02159, Frantisek Foret, residing at 525 Highland Avenue, #40, Malden, MA 02148, Paul M. Zavracky, residing at 25 Beech Street, Norwood, MA 02062, E. Nicol McGruer, residing at 265 Dedham Street, Dover, MA 02030, Qifeng Xue, residing at 838 Hancock Street, No. 26, Hayward, CA 94544, and, Yuriy M. Dunayevskiy, residing at ~~1040 Main Street, Apt. #18, Malden, MA 02148~~, <sup>10 David,</sup> hereby sell and assign to NORTHEASTERN UNIVERSITY, a Massachusetts corporation, having a principal place of business at 360 Huntington Avenue, Boston, MA 02115, its successors and assigns, the entire right, title and interest, including the right to claim priority under the International Convention, throughout the United States, its territories and all foreign countries in and to our invention in Y.O.

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PATENT

REEL: 9365 FRAME: 0573

NU-388XX

IN WITNESS WHEREOF, we have hereunto set our hands and affixed our seals.

*Yuriy M. Dunayevskiy*  
Yuriy M. Dunayevskiy

Date: 06/06/98

State of Massachusetts

County of Middlesex

)  
) ss.  
)

Subscribed and sworn to before me by the above-named Yuriy M. Dunayevskiy this 8 day of June 1998.

*Ellen M. Lemp*  
Notary Public

My Commission Expires:

MY COMMISSION EXPIRES JUNE 18, 1999

(Seal)

115538

A S S I G N M E N T

In consideration of One Dollar and other good and valuable consideration, the receipt of which is hereby acknowledged, we, Barry L. Karger, residing at 62 Deborah Road, Newton, MA 02159, Frantisek Foret, residing at 525 Highland Avenue, #40, Malden, MA 02148, Paul M. Zavracky, residing at 25 Beech Street, Norwood, MA 02062, E. Nicol McGruer, residing at 265 Dedham Street, Dover, MA 02030, Qifeng Xue, residing at 838 Hancock Street, No. 26, Hayward, CA 94544, and, Yuriy M. Dunayevskiy, residing at 1040 Main Street, Apt. #18, Malden, MA 02148, hereby sell and assign to NORTHEASTERN UNIVERSITY, a Massachusetts corporation, having a principal place of business at 360 Huntington Avenue, Boston, MA 02115, its successors and assigns, the entire right, title and interest, including the right to claim priority under the International Convention, throughout the United States, its territories and all foreign countries in and to our invention in

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NU-388XX

IN WITNESS WHEREOF, we have hereunto set our hands and affixed our seals.

Barry L. Karger  
Barry L. Karger

Date: March 19, 1998

State of Massachusetts

County of Suffolk

)  
) ss.  
)

Subscribed and sworn to before me by the above-named Barry L. Karger this 19 day of March, 1998.

Wendy G. Kamara <sup>Wendy G.</sup>  
Notary Public <sup>Kamara</sup>

My Commission Expires:

September 6, 2002

(Seal)

A S S I G N M E N T

In consideration of One Dollar and other good and valuable consideration, the receipt of which is hereby acknowledged, we, Barry L. Karger, residing at 62 Deborah Road, Newton, MA 02159, Frantisek Foret, residing at 525 Highland Avenue, #40, Malden, MA 02148, Paul M. Zavracky, residing at 25 Beech Street, Norwood, MA 02062, E. Nicol McGruer, residing at 265 Dedham Street, Dover, MA 02030, Qifeng Xue, residing at 838 Hancock Street, No. 26, Hayward, CA 94544, and, Yuriy M. Dunayevskiy, residing at 1040 Main Street, Apt. #18, Malden, MA 02148, hereby sell and assign to NORTHEASTERN UNIVERSITY, a Massachusetts corporation, having a principal place of business at 360 Huntington Avenue, Boston, MA 02115, its successors and assigns, the entire right, title and interest, including the right to claim priority under the International Convention, throughout the United States, its territories and all foreign countries in and to our invention in

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NU-388XX

IN WITNESS WHEREOF, we have hereunto set our hands and affixed our seals.

Frantisek Foret  
Frantisek Foret

Date: March 19, 1998

State of Massachusetts

)  
) ss.  
)

County of Suffolk

Subscribed and sworn to before me by the above-named Frantisek Foret this 19 day of March, 1998.

Wendy G. Kamara <sup>Wendy G. Kamara</sup>  
Notary Public

My Commission Expires:

September 6, 2002

(Seal)

A S S I G N M E N T

In consideration of One Dollar and other good and valuable consideration, the receipt of which is hereby acknowledged, we, Barry L. Karger, residing at 62 Deborah Road, Newton, MA 02159, Frantisek Foret, residing at 525 Highland Avenue, #40, Malden, MA 02148, Paul M. Zavracky, residing at 25 Beech Street, Norwood, MA 02062, E. Nicol McGruer, residing at 265 Dedham Street, Dover, MA 02030, Qifeng Xue, residing at 838 Hancock Street, No. 26, Hayward, CA 94544, and, Yuriy M. Dunayevskiy, residing at 1040 Main Street, Apt. #18, Malden, MA 02148, hereby sell and assign to NORTHEASTERN UNIVERSITY, a Massachusetts corporation, having a principal place of business at 360 Huntington Avenue, Boston, MA 02115, its successors and assigns, the entire right, title and interest, including the right to claim priority under the International Convention, throughout the United States, its territories and all foreign countries in and to our invention in

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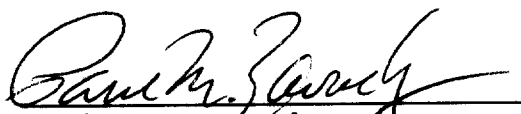
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NU-388XX

IN WITNESS WHEREOF, we have hereunto set our hands and affixed our seals.

  
Paul M. Zavracky

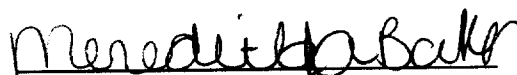
Date: April 6, 1998

State of Massachusetts

)  
) ss.  
)

County of

Subscribed and sworn to before me by the above-named Paul M. Zavracky this 6 day of April, 1998.

  
Notary Public

My Commission Expires:

Aug. 27, 2004

(Seal)

A S S I G N M E N T

In consideration of One Dollar and other good and valuable consideration, the receipt of which is hereby acknowledged, we, Barry L. Karger, residing at 62 Deborah Road, Newton, MA 02159, Frantisek Foret, residing at 525 Highland Avenue, #40, Malden, MA 02148, Paul M. Zavracky, residing at 25 Beech Street, Norwood, MA 02062, E. Nicol McGruer, residing at 265 Dedham Street, Dover, MA 02030, Qifeng Xue, residing at 838 Hancock Street, No. 26, Hayward, CA 94544, and, Yuriy M. Dunayevskiy, residing at 1040 Main Street, Apt. #18, Malden, MA 02148, hereby sell and assign to NORTHEASTERN UNIVERSITY, a Massachusetts corporation, having a principal place of business at 360 Huntington Avenue, Boston, MA 02115, its successors and assigns, the entire right, title and interest, including the right to claim priority under the International Convention, throughout the United States, its territories and all foreign countries in and to our invention in

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NU-388XX

IN WITNESS WHEREOF, we have hereunto set our hands and affixed our seals.

E. Nicol McGruer  
E. Nicol McGruer

Date: April 17, 1998

State of Massachusetts

)  
) ss.  
)

County of Suffolk

Subscribed and sworn to before me by the above-named E. Nicol McGruer this 17 day of April, 1998.

Wendy G. Kamara <sup>Wendy G.</sup> Kamara  
Notary Public

My Commission Expires:

September 6, 2002

(Seal)