

03-31-2003

Form PTO-1595 (Rev. 10/02)

RECORDATION



DEPARTMENT OF COMMERCE Patent and Trademark Office

OMB No. 0651-0027 (exp. 06/2005)

3-26-03 PATE

102404674

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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):
 Vamsee K. Pamula
 Michael G. Pollack
 Philip Y. Paik

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

2. Name and address of receiving party(ies)
 Name: Duke University
 Internal Address: Office of Science and Technology
P.O. Box 90083
 Street Address: 2020 West Main Street, Suite 10
 City: Durham State: NC Zip: 27708-0083
 Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____
 Execution Date: February 7, 2003

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)
10/253,342
 B. Patent No.(s)

 Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:
 Name: David P. Gloekler
 Internal Address: Jenkins & Wilson, P.A.
 Street Address: Suite 1400 University Tower
300 Tower Boulevard
 City: Durham State: NC Zip: 27707

6. Total number of applications and patents involved:
 7. Total fee (37 CFR 3.41).....\$ 40.00
 Enclosed
 Authorized to be charged to deposit account
 8. Deposit account number:
50-0426
 (Attach duplicate copy of this page if paying by deposit account)

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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.
David P. Gloekler Wm. D. Gloekler 3/18/03
 Name of Person Signing Signature Date

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

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

PATENT
 REEL: 013889 FRAME: 0148



ATTACHMENT FOR RECORDATION FORM COVER SHEET

PATENTS ONLY (Form PTO-1595)

1. Name of conveying party(ies):

Hong Ren

Richard B. Fair

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

Yes No

2. Name and address of receiving party(ies)

Name: _____

Internal Address: _____

Street Address: _____

City: _____ State: _____ ZIP: _____

Name and address of receiving party(ies)

Name: _____

Internal Address: _____

Street Address: _____

City: _____ State: _____ ZIP: _____

Additional name(s) & address(es) attached?

Yes No

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)

Additional numbers attached?

Yes No

ASSIGNMENT

WHEREAS, we, Vamsee K. Pamula, City of Durham, State of North Carolina; Michael G. Pollack, City of Durham, State of North Carolina; Philip Y. Paik, City of Durham, State of North Carolina; Hong Ren, City of Chapel Hill, State of North Carolina; and Richard B. Fair, City of Durham, State of North Carolina (hereinafter "Assignors"), have invented certain new and useful improvements in METHODS AND APPARATUS FOR MANIPULATING DROPLETS BY ELECTROWETTING-BASED TECHNIQUES for which a U.S. Patent Application was filed on September 24, 2002 as Serial No. 10/253,342.

AND, WHEREAS, Duke University, a non-profit organization located at Durham, North Carolina (hereinafter "Assignee"), is desirous of acquiring an interest therein.

NOW, THEREFORE, To Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignors have sold and by these presents do hereby sell, assign, transfer and convey unto the said Assignee, its successors and assigns, their entire right, title and interest in and to the said invention and application, and in and to any and all foreign patent applications filed on the invention, and in and to any and all continuations, continuations-in-part, or divisions thereof, and in and to any and all Letters Patent of the United States of America and all foreign countries or reissues thereof which may be granted therefor or thereon, for the full end of the term for which said Letters Patent may be granted, together with their right to claim the priority of said application in all foreign countries in accordance with the International Convention, the same to be held and enjoyed by said Assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by Assignors if this assignment and sale had not been made.

Assignors hereby request that said Letters Patent be issued in accordance with this assignment.

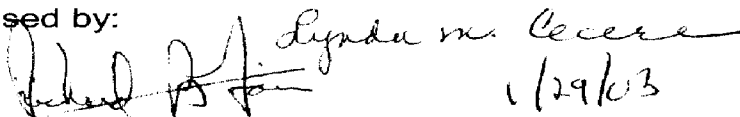
Assignors further covenant and agree that, at the time of the execution and delivery of these presents, Assignors possess full title to the invention and application above-mentioned, and that they have the unencumbered right and authority to make this assignment.

Assignors further covenant and agree, and likewise bind their heirs, legal representatives and assigns, to promptly communicate to said Assignee or its representatives any facts known to them relating to said invention, to testify in any interference or legal proceedings involving said invention, to execute any additional papers which may be requested to confirm the right of the Assignee, its representatives, successors and assigns to secure patent or similar protection for the said invention in all countries and to vest in the Assignee complete title to the said invention and Letters Patent, without further compensation, but at the expense of said Assignee, its successors, assigns and other legal representatives.

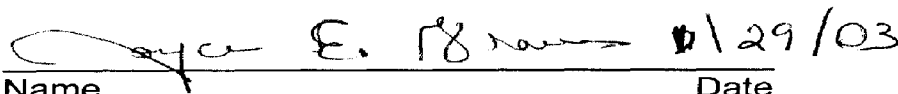
Executed this 29th day of January 2003.


Vamsee K. Pamula

Witnessed by:


Lydia M. Cecere

Name _____ Date 1/29/03


Joyce E. Brown

Name _____ Date 1/29/03

Executed this 29th day of January ~~2002.~~ ²⁰⁰³

Michael G. Pollack
Michael G. Pollack

Witnessed by: Lynnda M. Cecere

Michael G. Pollack 1/29/03
Name Date

Royce E. Haines 1/29/03
Name Date

Executed this 29th day of January ~~2002.~~ ²⁰⁰³

Philip Y. Paik
Philip Y. Paik

Witnessed by: Lynnda M. Cecere

Michael G. Pollack 1/29/03
Name Date

Royce E. Haines 1/29/03
Name Date

Executed this 7th day of February 2002.

Hong Ren
Hong Ren

Witnessed by:

Joyce E. Graves 2/7/03
Name Date

Lynnda W. Cecere 2/7/03
Name Date

Executed this 7th day of February 2002.

Richard B. Fair
Richard B. Fair

Witnessed by:

Joyce E. Graves 2/7/03
Name Date

Lynnda W. Cecere 2/7/03
Name Date