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To the Director of the U.S. Patent and Trademark Office. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Hye-jung CHO

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

SAMSUNG ELECTRONICS CO., LTD.

416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do,
KoreaAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
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Execution Date: September 20, 2004

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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: September 20, 2004

A. Patent Application No.(s)

Not yet assigned

B. Patent No.(s)

Not yet assigned

Additional numbers attached? ☐ Yes ☒ No5. Name and address of party to whom correspondence
concerning document should be mailed:

SUGHRUE MION, PLLC

WASHINGTON OFFICE

23373

CUSTOMER NUMBER

6. Total number of applications and patents involved:

1

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

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PATENT
REEL: 016073 FRAME: 0482

Assignment

Whereas, I/We, CHO, Hye-jung of 802-1103, Moklyun Donga Apartment, Hogae-dong, Dongan-gu, Anyang-si, Gyeonggi-do, Korea, hereinafter called assignor(s), have invented certain improvements in DEVICE AND METHOD FOR PUMPING FLUIDS EMPLOYING THE MOVEMENT OF GAS BUBBLES IN MICROSCALE and executed an application for Letters Patent of the United States of America therefor on September 20, 2004; and

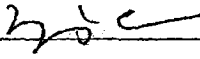
Whereas, SAMSUNG ELECTRONICS CO., LTD., 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Korea (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I/We, the above named assignor(s), hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including the right to claim priority under 35 U.S.C. §119, and I/we request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I/we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee.

I/We hereby authorize and request our attorneys SUGHRUE MION, PLLC of 2100 Pennsylvania Avenue, NW, Washington, DC 20037-3213 to insert here in parentheses (Application number _____ and Confirmation number _____, filed _____) the application number and filing date of said application when known.

Date: _____


s/CHO, Hye-jung

September 20, 2004

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)