



08-02-2007



103432915

To the Director of the U.S. Patent and Trademark Office: Please

1. Name of conveying party(ies): Execution Date(s):
Yoshihiro NORIKANE 01-24-2007
Shinji TEZUKA 01-24-2007
Masaru OHGAKI 01-24-2007
Masahiro MASUZAWA 01-24-2007
Hideyuki MIYAZAWA 01-24-2007

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

3. Nature of conveyance/Execution Date(s):

Execution Date(s): in parentheses after inventor name

- ☐ Assignment ☐ Merger ☐ Change of Name
☐ Security Agreement ☐ Joint Research Agreement
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License

☒ Other Corrective Assignment recorded at
Reel 019059, Frame 0910

2. Name and address of receiving party(ies)

Name: Ricoh Company, Ltd.

Internal Address:

Street Address:

3-6, Nakamagome 1-chome
Ohta-ku, Tokyo 143-8555
JAPAN

City:

State:

Country: Zip:

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

4. Application or patent number(s):

A. Patent Application No.(s)
11/652,083

☐ This document is being filed together with a new application.

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Mark J. Thronson
DICKSTEIN SHAPIRO LLP

Internal Address: Atty. Dkt.: R2184.0542/P542

Street Address: 1825 Eye Street, NW

City: Washington

State: DC Zip: 20006-5403

Phone Number: (202) 420-4742

Fax Number: (202) 420-2201

Email Address: ThronsonM@dicksteinshapiro.com

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- ☒ Authorized to be charged by credit card
☐ Authorized to be charged to deposit account
☐ Enclosed
☒ None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers 1002 40.00 OP
Expiration Date 01/11

b. Deposit Account Number
Authorized User Name

9. Signature:

Signature

June 8, 2007

Date

Mark J. Thronson - 33,082/Ranga Sourirajan - 60,109

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

PATENT DSMDDB-2270420v01

REEL: 019672 FRAME: 0405

06-20-2007

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OMB No. 0651-0027 (exp. 6/30/2008)U.S. DEPARTMENT OF COMMERCE
United States Patent and Trademark Office

6-8-07

103417786

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

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Yoshihiro NORIKANE 01-24-2007
Shinji TEZUKA 01-24-2007
Masaru OHGAKI 01-24-2007
Masahiro MASUZAWA 01-24-2007
Hideyuki MIYAZAWA 01-24-2007

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☐ Other

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Email Address: ThronsonM@dicksteinshapiro.com

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 0.00

- ☐ Authorized to be charged by credit card
☐ Authorized to be charged to deposit account
☐ Enclosed
☒ None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers 1002
Expiration Date 01/11

b. Deposit Account Number
Authorized User Name

9. Signature:

Signature

June 8, 2007

Date

Mark J. Thronson - 33,082/Ranga Sourirajan - 60,109

Name of Person Signing

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

PATENT DSMDB-2270420v01

REEL: 019672 FRAME: 0406

RECORDATION FORM COVER SHEET
(continued)

Additional Conveying Party(ies)/Execution Date(s) (1. Continued):

Hideyuki Miyazawa ~~(1/14/2007)~~ (1/24/2007)

Additional Assignees (2. Continued):

Assignee Name: _____

Internal Address: _____

Street Address: _____

City: _____ State: _____ Country: _____ Zip: _____

Assignee Name: _____

Internal Address: _____

Street Address: _____

City: _____ State: _____ Country: _____ Zip: _____

Assignee Name: _____

Internal Address: _____

Street Address: _____

City: _____ State: _____ Country: _____ Zip: _____

Additional Applications and/or Patents (4. Continued):

Additional Patent Application Numbers
4A. Continued:Additional Patent Numbers
4B. Continued:

Additional numbers attached?

☐

Yes

☐

No

ASSIGNMENT

THIS ASSIGNMENT, by YOSHIHIRO NORIKANE, SHINJI TEZUKA,
MASARU OHGAKI, MASAHIRO MASUZAWA, and HIDEYUKI MIYAZAWA
(hereinafter referred to as "Assignors"), residing at Kanagawa, Japan, Kanagawa, Japan,
Kanagawa, Japan, Kanagawa, Japan, and Tokyo, Japan, respectively;

WHEREAS, Assignors have invented certain new and useful improvements in MICROSCOPIC FLOW PASSAGE STRUCTURE, MICROSCOPIC LIQUID DROPLET GENERATING METHOD, MICROSCOPIC LIQUID DROPLET GENERATING SYSTEM, PARTICLES, AND MICROCAPSULES, set forth in a patent application for Letters Patent of the United States, executed concurrently herewith; and

WHEREAS, Ricoh Company, Ltd. (hereinafter referred to as "Assignee"), having offices at 3-6, Nakamagome 1-chome, Ohta-ku, Tokyo 143-8555 Japan, is desirous of acquiring the entire right, title and interest in and to said inventions and said application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefor and thereon.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefor and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and Assignment not been made.

AND for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal

representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

AND Assignors hereby request the Director of the United States Patent and Trademark Office to issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

AND Assignors hereby grant the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document: All practitioners associated with Customer Number 24998 (Dickstein Shapiro LLP).

AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

January 24, 2007
Date

Yoshihiro Norikane
YOSHIHIRO NORIKANE

January 24, 2007
Date

Shinji Tezuka
SHINJI TEZUKA

January 24, 2007
Date

Masaru Ohgaki
MASARU OHGAKI

Jan. 24, 2007
Date

Masahiro Masuzawa
MASAHIRO MASUZAWA

January 24, 2007
Date

Hideyuki Miyazawa
HIDEYUKI MIYAZAWA

January 24, 2007
Date

[Signature]
Witness

January 24, 2007
Date

[Signature]
Witness