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U.S. DEPARTMENT OF COMMERCE  
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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):

Masaki Kataoka  
Jun Isozaki  
Hiroshi ShibataAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

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

Execution Date: 11/21/2011

2. Name and address of receiving party(ies)

Name: Fuji Xerox Co., Ltd.  
Street Address: 7-3, Akasaka 9-chome,  
Minato-ku  
City: Tokyo State: JapanName: Fujifilm CorporationStreet Address: 26-30, Nishiazabu 2-chome,  
Minato-kuCity: Tokyo State: JapanAdditional name(s) & address(es) attached? ☐ Yes ☒ No4. Application number(s) or patent number(s) LIQUID CIRCULATING APPARATUS, COMPUTER-READABLE MEDIUM, AND LIQUID DISCHARGING APPARATUS

If this document is being filed together with a new application, the execution date of this application is: 11/21/2011

A. Patent Application No.(s)

13/304,853

B. Patent No.(s)

Additional numbers attached:

☐ Yes ☒ No

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

Name: Christopher J. Fildes

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

Street Address: Fildes & Outland, P.C.20916 Mack Avenue, Suite 2City: Grosse Pointe Woods State: MI ZIP: 48236

6. Total number of applications and patents involved:

17. 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)

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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.

Christopher J. Fildes  
Name of person signing  
SignatureNovember 28, 2011  
Date

Total number of pages including cover sheet, attachments, and document: 4

Mail documents to be recorded with required cover sheet information to:

Mail Stop Assignments, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

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PATENT  
REEL: 027466 FRAME: 0821

## Assignment

Whereas, I/We, Masaki KATAOKA, Jun ISOZAKI and Hiroshi SHIBATA, all of Kanagawa, Japan

hereinafter called assignor(s), have invented certain improvements in

LIQUID CIRCULATING APPARATUS, COMPUTER-READABLE MEDIUM, AND  
LIQUID DISCHARGING APPARATUS

and executed an application for Letters Patent of the United States of America therefor on

November 21, 2011 ; and

Whereas, 1. FUJI XEROX CO., LTD. of

7-3, Akasaka 9-chome, Minato-ku, Tokyo, Japan

2. FUJIFILM Corporation of

26-30, Nishiazabu 2-chome, Minato-ku, Tokyo, Japan,

(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, and all divisions, and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, including the right to claim priority under 35 U.S.C. §119, and I/we request the Commissioner of Patents 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 FILDES & OUTLAND, P.C. of 20916 Mack Avenue, Suite 2, Grosse Pointe Woods, Michigan 48236 to insert here in parentheses (Application number \_\_\_\_\_, filed \_\_\_\_\_) the filing date and application number of said application when known.

Date: November 21, 2011 Masaki Katakoka  
s/ Masaki KATAOKA

Date: November 21, 2011 Jun Isozaki  
s/ Jun ISOZAKI

Date: \_\_\_\_\_  
s/ Hiroshi SHIBATA

Date: \_\_\_\_\_

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261) 8/92

Date: \_\_\_\_\_  
s/ Masaki KATAOKA

Date: \_\_\_\_\_  
s/ Jun ISOZAKI

Date: November 21, 2011 *Hiroshi Shibata*  
s/ Hiroshi SHIBATA

Date: \_\_\_\_\_

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261) 8/92