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U.S. DEPARTMENT OF COMMERCE
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Attorney Docket No. 112049

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

1. A. Name of conveying parties:
Atsushi MURAKAMI
Masatoshi YOSHIYAMA

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

2. A. Name and address of receiving party:
BROTHER KOGYO KABUSHIKI KAISHA
15-1, NAESHIRO-CHO, MIZUHO-KU,
NAGOYA-SHI, AICHI-KEN 467-8561,
JAPAN

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

3. A. Nature of conveyance:

☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

B. Execution Date: March 19, 2002

10/108394

4. A. If this document is being filed together with a new application, the execution date of the application is: March 19, 2002

B. Patent Application No.(s) _____

C. Patent No.(s) _____

Additional numbers attached? ☐ Yes ☒ No

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

Name: James A. Oliff

Address: **OLIFF & BERRIDGE, PLC**
P.O. Box 19928
Alexandria, VA 22320

6. Total number of applications and patents involved: 17. A. Total fee (37 CFR 3.41).....\$ 40.00B. Enclosed (Check No. 129311)

8. Credit any overpayment or charge any underpayment to deposit account number 15-0461.

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.

Holly N. Sy
James A. Oliff, Registration No. 27,075
Holly N. Sy, Registration No. 50,212

Date: March 29, 2002Total number of pages including cover sheet, attachments, and document: 2

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PATENT
REEL: 012749 FRAME: 0446

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03/29/02

ASSIGNMENT

(1-8)	Insert Name(s) of Inventor(s)	(1) <u>Atsushi MURAKAMI</u> (2) <u>Masatoshi YOSHIYAMA</u> (3) _____ (4) _____	(5) _____ (6) _____ (7) _____ (8) _____
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In consideration of the sum of one dollar (\$1.00) and other good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, transfer and set over to

(9)	Insert Name of Assignee	(9) <u>BROTHER KOGYO KABUSHIKI KAISHA</u>
(10)	Insert Address of Assignee	(10) <u>15-1 Naeshiro-cho, Mizuho-ku, Nagoya-shi, Aichi-ken 467-8561, Japan</u>

(hereinafter designated as the Assignee) the entire right, title and interest for the United States of America as defined in 35 U.S.C. §100, in the invention, and in all applications for patent including any and all provisional, non-provisional, divisional, continuation, substitute, and reissue application(s), and all Letters Patent, extensions, reissues and reexamination certificates that may be granted on the invention known as

(11)	Insert Identification of Invention such as Title, Case Number, or Foreign Application Number	(11) <u>INK CARTRIDGE, PRINTING APPARATUS USING THE INK CARTRIDGE, METHOD FOR DETECTING REMAINING AMOUNT OF INK USING THE INK CARTRIDGE</u> _____ (Attorney Docket No. <u>112049</u>)
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for which the undersigned has (have) executed an application for patent in the United States of America

(12)	Insert Date of Signing of Application	(12) on <u>Mar. 19, 2002</u>
(13)	Alternative Identification for filed applications	(13) U.S. application Serial Number _____ filed <u>March 29, 2002</u>

- 1) The undersigned agree(s) to execute all papers necessary in connection with any application and any continuing, divisional or reissue applications for the invention, and any patent(s) issuing thereon, and also to execute separate assignments in connection with such applications and patents as the Assignees may deem necessary.
- 2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning any application or continuation or division thereof, or any patent or reissue application based thereon, for the invention, and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.
- 3) The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.
- 4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or reexamination a grant of a valid United States patent to the Assignee.
- 5) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application(s) to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreements in conflict herewith.
- 6) The undersigned hereby grant(s) the firm of **OLIFF & BERRIDGE** 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.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date <u>Mar. 19, 2002</u>	Name of Inventor <u>Atsushi Murakami</u>	(SEAL)
Date <u>Mar. 19, 2002</u>	Name of Inventor <u>Masatoshi Yoshiyama</u>	(SEAL)
Date _____	Name of Inventor _____	(SEAL)
Date _____	Name of Inventor _____	(SEAL)
Date _____	Name of Inventor _____	(SEAL)
Date _____	Name of Inventor _____	(SEAL)
Date _____	Name of Inventor _____	(SEAL)
Date _____	Name of Inventor _____	(SEAL)