

03-22-1999



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Assistant Commissioner for Patents  
Box Assignments  
Washington, D.C. 20231

PATENTS ONLY

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

Attorney Docket No. 102458

To the Assistant Commissioner for Patents: Please record the attached original document or copy thereof.

MRD 031195

10/26/97  
03/11/99  
10136 U.S. PTO  
03/11/99  
09/26/88

1. A. Name of conveying party(ies):  
Kazuyuki MIYAKI  
  
B. Additional name(s) of conveying party(ies) attached?  
 Yes  No

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

3. A. Nature of conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other \_\_\_\_\_  
  
B. Execution Date: March 10, 1999

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

4. A. If this document is being filed together with a new application, the execution date of the application is: March 10, 1999  
  
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: 1  
  
7. A. Total fee (37 CFR 3.41).....\$ 40.00  
B. Enclosed (Check No. 66858)  
  
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.*  
  
James A. Oliff Date: March 11, 1999  
James A. Oliff Registration No. 27,075  
Ronald E. Prass, Jr. Registration No. 42,089

03/19/1999 JSMBBAZZ 00000130 09265877

Total number of pages including cover sheet, attachments, and document: 2

01 FC:581 (40.00 DP)

**ASSIGNMENT**

(1) Kazuyuki MIYAGI (5) \_\_\_\_\_  
 (2) \_\_\_\_\_ (6) \_\_\_\_\_  
 (3) \_\_\_\_\_ (7) \_\_\_\_\_  
 (4) \_\_\_\_\_ (8) \_\_\_\_\_

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) BROTHER KOGYO KABUSHIKI KAISHA  
 (10) **Insert Address of Assignee** (10) 15-1 Naeshiro-cho, Mizuho-ku, Nagoya-shi, Aichi-ken 467-8561, Japan

(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) PRINTING DEVICE, PRINTING SYSTEM, AND STORAGE MEDIUM  
 (Attorney Docket No. 102488)

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 March 10, 1999

(13) **Alternative Identification for filed applications** (13) U.S. application Serial Number \_\_\_\_\_  
 filed March 11, 1999

- 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 Assignee 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 10, 1999</u>	Name of Inventor	<u>Kazuyuki Miyagi</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)
Date	_____	Name of Inventor	_____	(SEAL)