

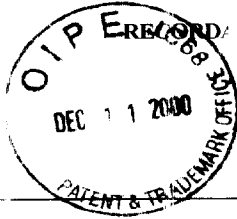
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To the Director of the U.S. Patent and Trademark Office: Please record the attached original document or copy thereof

1. A. Name of conveying party(ies):  
 1) Noriyuki YAMADA  
 2) Takachiho UMEDA  
 3) Hiroshi SUZUKI

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: 1) signed September 18, 2000, 2)  
and 3) signed September 14, 2000

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: \_\_\_\_\_

B. Patent Application No.(s) 09/662, 730

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

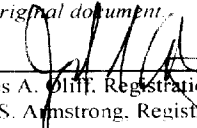
Address: **OLIFF & BERRIDGE, PLC**  
**P.O. Box 19928**  
**Alexandria, VA 22320**

6. Total number of applications and patents involved: 1

7. A. Total fee (37 CFR 3.41).....\$ 40.00  
 B. Enclosed (Check No. 114575)

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, Registration No. 27,075  
 Joel S. Armstrong, Registration No. 36,430

Date: December 11, 2000

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

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**PATENT**  
**REEL: 011353 FRAME: 0071**

ASSIGNMENT

(1-8) Insert Name(s) of Inventor(s) (1) Noriyuki YAMADA (5) (2) Takaichiro UMEDA (6) (3) Hiroshi SUZUKI (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 Nacshiro-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 such as Title, Case (11) PRETREATMENT PURGING UNIT THAT SELECTS NOZZLE ROW TO BE PURGED USING ROTATING MEMBER

Number, or Foreign Application Number

(Attorney Docket No. 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 September 14, 2000, September 18, 2000

(13) Alternative Identification for filed applications (13) U.S. application Serial Number 09/662,730 filed

- 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 OLIF & 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 Sep 14, 2000 Name of Inventor Noriyuki Yamada (SEAL)
Date Sep 18, 2000 Name of Inventor Takaichiro Umeda (SEAL)
Date Sep 14, 2000 Name of Inventor Hiroshi Suzuki (SEAL)
Date Name of Inventor (SEAL)
Date Name of Inventor (SEAL)
Date Name of Inventor (SEAL)
Date Name of Inventor (SEAL)