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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------------------------|
| PATENT                                                                                                                                                                                                |  |  |                                                                                                                                                                                                                                                                                                                                                             | 1 SHEET |                           |
| 100984099                                                                                                                                                                                             |  |                                                                                   |                                                                                                                                                                                                                                                                                                                                                             |         |                           |
| To the Honorable Commissioner of Patents and Trademarks: Please record the attached original document or copy thereof.                                                                                |  |                                                                                   |                                                                                                                                                                                                                                                                                                                                                             |         |                           |
| 1. Name of conveying party(ies):<br><br>Katsuji SAKANO<br><br>Individual<br><br>Additional names(s) of conveying party(ies) attached? No                                                              |  |                                                                                   | 2. Name and Address of receiving party(ies):<br><br>NEC Corporation<br>7-1, Shiba 5-chome, Minato-ku<br>Tokyo, Japan<br><br>Corporation of Japan<br><br>Additional name(s) & address(es) attached? NO                                                                                                                                                       |         |                           |
| 3. Nature of conveyance:<br><br>Assignment<br><br>Execution Date: February 8, 1999                                                                                                                    |  |                                                                                   |                                                                                                                                                                                                                                                                                                                                                             |         |                           |
| 4. Application number(s) or patent number(s):<br>If this document is being filed together with a new application, the execution date of the application is: February 8, 1999                          |  |                                                                                   |                                                                                                                                                                                                                                                                                                                                                             |         |                           |
| A. Application No.(s)                                                                                                                                                                                 |  |                                                                                   | B. Patent No.(s)                                                                                                                                                                                                                                                                                                                                            |         |                           |
| Additional numbers attached? No                                                                                                                                                                       |  |                                                                                   |                                                                                                                                                                                                                                                                                                                                                             |         |                           |
| 5. Name and address of party to whom correspondence concerning document should be mailed:<br><br>OSTROLENK, FABER, GERB & SOFFEN, LLP<br>1180 Avenue of the Americas<br>New York, New York 10036-8403 |  |                                                                                   | 6. Total number of documents involved: 1                                                                                                                                                                                                                                                                                                                    |         |                           |
|                                                                                                                                                                                                       |  |                                                                                   | 7. Total fee (37 CFR 3.41): \$ 40.00<br><br>Enclosed as part of Check No. 82577<br><br><small>In the event the actual fee is greater than the payment submitted or is inadvertently not enclosed or if any additional fee due is not paid, the Patent and Trademark Office is authorized to charge the underpayment to Deposit Account No. 15-0700.</small> |         |                           |
| DO NOT USE THIS SPACE                                                                                                                                                                                 |  |                                                                                   |                                                                                                                                                                                                                                                                                                                                                             |         |                           |
| 8. 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.                                               |  |                                                                                   |                                                                                                                                                                                                                                                                                                                                                             |         |                           |
| Steven I. Weisburd<br>Name of Person Signing                                                                                                                                                          |  |                                                                                   | <br>Signature                                                                                                                                                                                                                                                           |         | February 25, 1999<br>Date |
| Total number of pages including cover sheet, attachments, and document: 2                                                                                                                             |  |                                                                                   |                                                                                                                                                                                                                                                                                                                                                             |         |                           |

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PATENT  
REEL: 9802 FRAME: 0289

PATENT APPLICATION ASSIGNMENT -  
SOLE OR JOINT INVENTORS  
EXECUTED OUTSIDE U.S.A.

OFGS FILE NO.

p/3201-8

WHEREAS, I (We), Katsuji SAKANO of Yamagata, Japan  
as assignor(s),  
have invented certain improvements in Dot-Impact Printing Head Control  
Apparatus

for which an application for United States  
Letters Patent has been executed by me (us) of even date herewith; and

WHEREAS, NEC Corporation, 7-1, Shiba 5-chome, Minato-ku,  
Tokyo, Japan

as assignee, is desirous of acquiring all right, title and interest in and to said  
invention and any Patent that may be granted therefor.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and  
valuable consideration, the receipt of which is hereby acknowledged, I (We), as  
assignor(s), hereby sell, assign and set over to said assignee the entire right, title and  
interest for the United States and all other countries in and to said invention and the  
aforesaid application for Patent, all original, divisional, continuation, substitute or  
reissue applications and patents applied for or granted therefor in the United States and  
all other countries, including all rights of priority from the filing of said application,  
and all rights for past infringement, and the Commissioner of Patents and Trademarks is  
hereby authorized and requested to issue all patents on said inventions or resulting  
therefrom to said assignee herein, as assignee of the entire interest therein; and the  
undersigned for myself (ourselves) and my (our) legal representatives, heirs and assigns  
do hereby agree and covenant without further remuneration, to execute and deliver all  
divisional, continuation, reissue and other applications for Patent on said inventions and  
all assignments thereof to said assignee or its assigns, to communicate to said assignee  
or its representatives all facts known to the undersigned respecting said inventions,  
whenever requested, to testify in any interferences or other legal proceedings in which  
any of said applications or patents may become involved, to sign all lawful papers, make  
all rightful oaths, and to do generally everything necessary to assist assignee, its  
successors, assigns and nominees to obtain patent protection for said invention in the  
United States and all other countries, the expenses incident to said applications to be  
borne and paid by said assignee.

Date: Feb. 08, 1999

Katsuji Sakano  
Katsuji SAKANO



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

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

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

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

Witness;

Toku Ikeda

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

[Signature]

LEGALIZATION RECOMMENDED

DISC\189693

RECORDED: 02/25/1999

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REEL: 9802 FRAME: 0290