|   | <u> </u>   |  |  |  |
|---|--|--|--|--|
| FORM PTO-1595 RI 10-23  | -2000 EET U.S. DEPARTMENT OF COMMERCE  |  |  |  |
| 9.18. D581.46   |  |  |  |  |
| To the Honorable Commissioner of Patents and Trademarks:  | 94668  Please record the attached original documents or copy thereof.  |  |  |  |
| Name of conveying party(ies):   | 2. Name and address of receiving party(ies):   |  |  |  |
| Toshihiro Hishida, Seiji Ura, Hidehiko Shin,<br>Junji Ishigaki, Keizaburo Sasaki, and Eriko<br>Ooseki   | Name: (1) Matsushita Electric Industrial Co., Ltd.; (2) Matsushita Communication Industrial Co. Ltd.; (3) NTT DoCoMo, Inc.   |  |  |  |
| Additional name(s) of conveying party(ies) attached?   Yes   No   | Street Address: (1) 1006, Kadoma, Kadoma-shi; (2   |  |  |  |
| 3. Nature of Conveyance:  ☐ Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name ☐ Other   | 3-1, Tsunashimahigashi 4-chome, Kohoku-ku; (3) 11-1, Nagatacho 2-chome, Chiyoda-ku City: (1) Osaka 571-0050; (2) Yokohama-shi, Kanagawa 223-0052; (3) Tokyo 100-6150 State: (1) JAPAN; (2) JAPAN; (3) JAPAN Zip: |  |  |  |
| Execution Date: September 4, 2000; September 4, 2000  | Additional name(s) of receiving party(ies) attached? □ Yes ⊠ No  |  |  |  |
| If this document is being filed together with a new application September 4, 2000; September 4, 2000; September A. Patent Application No.(s):   | the execution date of the application is: September 4, 2000; 4, 2000; September 4, 2000  B. Patent No.(s):   |  |  |  |
| Additional number(s) a  | tached? □ Yes ⊠ No   |  |  |  |
| 5. Name and address of party to whom correspondence<br>concerning this document should be mailed:   | 6. Total number of applications and patents involved: 1  |  |  |  |
| Name: <u>David E. Spaw</u> Street Address: <b>526 Superior Avenue East</b>  | 7. Total Fee (37 C.F.R. §3.41)\$40.00  |  |  |  |
| Suite 1200  | ⊠ Enclosed   |  |  |  |
|   | ☐ Authorized to be charged to Deposit Account  |  |  |  |
| City: <u>Cleveland</u> State: <u>OH</u> Zip: <u>44114-1484</u>  | 8. Deposit Account No.   |  |  |  |
| F0:561 -0.00 57   | 16-0820, Order No. 32954 (Attach duplicate copy of this page if paying by deposit account)   |  |  |  |
| DO NOT US   | DO NOT USE THIS SPACE  |  |  |  |
| 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.  David E. Spaw  September 18, 2000 |  |  |  |  |
| Name of Person Signing Sign   | nature Date  |  |  |  |

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

**REEL: 011163 FRAME: 0988** 

**PATENT** 

## ASSIGNMENT

WHEREAS, new and useful improvements have been made by the undersigned in

| DOCUMENT | PROCESSING | APPARATUS |
|----------|------------|-----------|
|          |            |           |

and are the subject of a patent application prepared for filing in the United States Patent and Trademark Office, and executed by the undersigned on the dates indicated below in the appropriate spaces to the left of the signatures of the undersigned, which application is further identified as Pearne, Gordon, McCoy & Granger Docket No. 32954.

WHEREAS, (see below), a corporation of Japan, having a place of business at (see below), hereinafter referred to as "assignee", is desirous of acquiring all right, title, and interest throughout the world in, to, and under said improvements and inventions and patent rights therefor.

NOW, THEREFORE, be it known that, for valuable consideration, the receipt and sufficiency of which are hereby acknowledged, all right, title, and interest, in the United States and throughout the world, in, to and under said improvements and inventions and all patents, patent applications, patent rights, and inventor's certificates thereof, therefor, and therein, including without limitation said application for patent in the United States, all divisions and continuations thereof, all patents which may be granted thereon, all reissues and extensions thereof, all right to sue for past infringement thereunder, all patents which may be granted for said improvements and inventions by states or nations other than the United States, or by other authority, entity, or organization, and all applications therefor, have been and are hereby sold, assigned, transferred, and delivered unto assignee, its successors and assigns; and it is covenanted and agreed by the undersigned, and for executors, administrators, and legal representatives of the undersigned, that at assignee's request any and all applications, affidavits, assignments, and other instruments will be made, executed, and delivered as may be necessary, or desirable to secure for or vest in assignee, its successors or assigns, any improvement, inventions, right, title, interest, application, patent, patent right or other right or property covered by this assignment, and the United States Commissioner of Patents and Trademarks is hereby requested and authorized to issue any and all United States patents granted on any of said applications to assignee as owner of the entire right, title, and interest in, to, and under the same, and appropriately empowered officials of foreign countries are hereby authorized to issue any letters patent granted on any of said applications to assignee as owner of the entire right, title and interest in, to, and under the same.

The undersigned hereby grants the firm of Pearne, Gordon, McCoy & Granger 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.

- 1. MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. 1006, Kadoma, Kadoma-shi, Osaka 571-0050 Japan
- 2. MATSUSHITA COMMUNICATION INDUSTRIAL CO., LTD 3-1, Tsunashimahigashi 4-chome, Kohoku-ku, Yokohama-shi, Kanagawa 223-0052 Japan
- 3. NTT DoCoMo, Inc. 11-1, Nagatacho 2-chome, Chiyoda-ku, Tokyo 100-6150 Japan

Page 1 of 3

PGM&G PT605

IN WITNESS WHEREOF, this assignment has been executed below by the undersigned:

|   | Date I Signed Declaration  | Today's<br>Detc                     | Todilhiro<br>7 Sishida                        |  |
|---|--|-------------------------------------|---|--|
|   | Sep. 4, 2000   | Sep. 4, 2000                        | 7 Lishida                                     |  |
| Witness   | Address: 5-24  | l, Hiyodoridai 3-                   | Name: Toshihiro<br>HISHIDA<br>chome, Kita-ku. |  |
| Witness   |  | e-shi, Hyogo 651-                   |   |  |
|   | Date I Signed<br>Declaration   | Today's<br>Date                     | Seiji<br>Tirot                                |  |
|   | Sep. 4, 2000   | Sep. 4, 2000                        | Zira  |  |
| Witness   |  |                                     | Name: Seiji                                   |  |
| Witness   | Address: 14-30-103, Komatsu 1-chome, ess Higashiyodogawa-ku, Osaka-shi, Osaka 533-0004 Japan |                                     |   |  |
|   | Date I Signed<br>Declaration   | :<br>Today's<br>Date                | gjidehiko<br>Shin                             |  |
|   | Sep. 4, 2000   | Sep. 4, 2000                        | Shin  |  |
| Witness   |  |                                     | Name: Hidehiko<br>SHIN                        |  |
| Address: 16-22-222, Kikusuido: Moriguchi-shi, Osaka |  | ri 1-chome,<br>570-0032 Japan       |   |  |
|   | Date I Signed<br>Declaration   | Today's<br>Date                     | Junji<br>Ushi saki                            |  |
|   | Sep. 4, 2000   | Sep. 4, 2000                        |   |  |
| Witness   | •  |                                     | Name: <b>Junji</b><br>I <b>SHIGAKI</b>        |  |
| Witness   |  | , Ishikawacho, Ha<br>192-0032 Japan | achioji-shi,                                  |  |

PGM&G PT605

Page 2 of 3

PATENT REEL: 011163 FRAME: 0990 IN WITNESS WHEREOF, this assignment has been executed below by the undersigned:

|         | Date 1 Signed<br>Declaration  | Today's<br>Date                          |                           |  |
|---------|---|--|---------------------------|--|
| Witness | Sep. 4, 200   | 00 Sep. 4, 2000                          | Name: Keizaburo<br>SASAKI |  |
| Witness | Address: 1-8<br>Kan   | -504, Hinodecho, Y<br>agawa 238-0006 Jap | okosuka-shi,              |  |
|         | Date I Signed<br>Declaration  | Today's<br>Date                          |                           |  |
|         | Sep. 4, 200   | 0 Sep. 4, 2000                           | Eriko Ovseki              |  |
| Witness |   |  | Name: Eriko<br>OOSEKI     |  |
| Witness | Address: 6-1-704, Hikarinooka, Yokosuka-shi,<br>Kanagawa 239-0847 Japan |  |                           |  |
|         | Date 1 Signed<br>Declaration  | :<br>Today's<br>Date                     |                           |  |
| Witness |   |  | Name:                     |  |
| Witness | Address:  |  |                           |  |
|         | Date 1 Signed<br>Declaration  | Today's<br>Date                          |                           |  |
| Witness |   |  | Name:                     |  |
|         | Address:  |  |                           |  |
| Witness |   |  |                           |  |

PGN&G PT605

**RECORDED: 09/18/2000** 

Page 3 of 3

**PATENT REEL: 011163 FRAME: 0991**