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U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

Docket No.: 49657-526

PATENTS ONLY

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereto:

1. Name of Conveying Parties:

Shuji MURAKAMI, Hirohisa MACHIDA, Hiroyuki
MIZUTANI, and Hiroshi OCHIAdditional name(s) of conveying party(ies) attached? ☐ Yes

3. Nature of Conveyance:

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

Execution Date: October 26, 1999

2. Name and address of receiving party:

Name: Mitsubishi Denki Kabushiki Kaisha

Address: 2-3, Marunouchi 2-chome
Chiyoda-ku
Tokyo 100-8310, JAPANAdditional name(s) & address(es) attached? ☐ Yes

4. Application number(s) or patent number(s):

09/432176

If the document is being filed together with a new application, the execution date of the application is: October 26, 1999

A. Patent Application No(s).

B. Patent No(s).

Additional numbers attached? ☐ Yes

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

Name: MCDERMOTT, WILL & EMERY

Internal Address:

Street Address: 600 13th Street, N.W.

City: Washington State: DC Zip: 20005

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41) \$40.00

- ☐ Enclosed
☒ Authorized to be charged to deposit account

8. Deposit account number:
500417

11/09/1999 JSHABAZZ 00000056 500417 09432176

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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.

Stephen A. Becker, 26,527

November 2, 1999

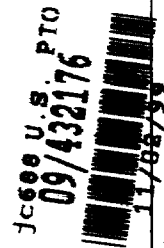
Name and Registration No. of Person Signing

Signature

Date

Total number of pages comprising cover sheet: 1

CMB No. 0851-0011 (exp. 4/94)

PATENT
REEL: 010365 FRAME: 0806

1. Docket.

No.:

ASSIGNMENT

In consideration of the premises and other good and valuable consideration in hand paid, the receipt and sufficiency of which is hereby acknowledged, the undersigned,

(1) <u>Shuji MURAKAMI</u>	(4) <u>Hiroshi OCHI</u>	(7) _____
(2) <u>Hirohisa MACHIDA</u>	(5) _____	(8) _____
(3) <u>Hiroyuki MIZUTANI</u>	(6) _____	(9) _____

who have made a certain new and useful invention, hereby sell, assign and transfer unto

Mitsubishi Denki Kabushiki Kaisha of
2-3, Marunouchi 2-chome, Chiyoda-ku, TOKYO 100-8310 JAPAN

its successors and assigns (hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100 in the invention entitled

ADAPTIVE EQUALIZER AND DESIGNING METHOD THEREOF

(a) for which an application for United States Letters Patent was filed on _____, and identified by United States Serial No. _____; or

(b) for which an application for United States Letters Patent was executed on October 26, 1999,

and the undersigned hereby authorize and request the United States Commissioner of Patents and Trademarks to issue any and all United States Letters Patent which may be granted therefor and any and all extensions, divisions, reissues, substitutes, renewals, continuations, or continuations-in-part thereof, and the right to all benefits under the International Convention for the Protection of Industrial Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE:

AND the undersigned hereby agree to transfer a like interest, and to render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and applications for patent based thereon, growing out of or related to the said invention; and to execute any papers by the said ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.

SIGNED on the dates indicated aside our signatures:

INVENTORS

DATE SIGNED

1) <u>Shuji Murakami</u> Name: Shuji MURAKAMI	<u>October 26, 1999</u>
2) <u>Hirohisa Machida</u> Name: Hirohisa MACHIDA	<u>October 26, 1999</u>
3) <u>Hiroyuki Mizutani</u> Name: Hiroyuki MIZUTANI	<u>October 26, 1999</u>
4) <u>Hiroshi Ochi</u> Name: Hiroshi OCHI	<u>October 26, 1999</u>
5) _____ Name: _____	_____
6) _____ Name: _____	_____
7) _____ Name: _____	_____
8) _____ Name: _____	_____
9) _____ Name: _____	_____

PATENT

RECORDED: 11/02/1999

REEL: 010365 FRAME: 0807