

08-28-2000



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RECORD

S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

FORM PTO-1596
1-31-92

Docket No.: 49657-659

PATENTS ONLY

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

<p>1. Name of Conveying Parties: Takeshi HAMAMOTO and Zenya KAWAGUCHI</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes</p>	<p>2. Name and address of receiving party: Name: Mitsubishi Denki Kabushiki Kaisha Address: 2-3, Marunouchi 2-chome Chiyoda-ku Tokyo 100-8310, Japan</p> <p>Additional name(s) & address(es) attached? <input type="checkbox"/> Yes</p>
<p>3. Nature of Conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other</p> <p>Execution Date: May 9, 2000</p>	

4. Application number(s) or patent number(s):
If the document is being filed together with a new application, the execution date of the application is:

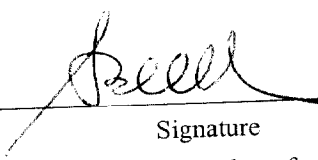
<p>A. Patent Application No(s). 09/531,504, filed March 21, 2000</p>	<p>B. Patent No(s).</p>
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Additional numbers attached? Yes

<p>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</p>	<p>6. Total number of applications and patents involved: 1</p> <p>7. Total fee (37 CFR 3.41) \$40.00 <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account</p> <p>8. Deposit account number: 500417</p>
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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.

Stephen A. Becker, 26,527  July 21, 2000

Name and Registration No. of Person Signing Signature Date

Total number of pages comprising cover sheet: 1

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

08/28/2000 MTHA11 00000094 500417 09531504
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Docket No. 49657-659

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) Takeshi HAMAMOTO (4) _____ (7) _____
- (2) Zenya KAWAGUCHI (5) _____ (8) _____
- (3) _____ (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

BUFFER CIRCUIT CAPABLE OF CORRECTLY TRANSFERRING SMALL AMPLITUDE SIGNAL
IN SYNCHRONIZATION WITH HIGH SPEED CLOCK SIGNAL

- (a) for which an application for United States Letters Patent was filed on March 21, 2000, and identified by United States Serial No. 09/531,504; or
- (b) for which an application for United States Letters Patent was executed on _____

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) Takeshi Hamamoto _____ May 9, 2000 _____
Name: Takeshi HAMAMOTO
- 2) Zenya Kawaguchi _____ May 9, 2000 _____
Name: Zenya KAWAGUCHI
- 3) _____ _____
Name: _____
- 4) _____ _____
Name: _____
- 5) _____ _____
Name: _____
- 6) _____ _____
Name: _____
- 7) _____ _____
Name: _____
- 8) _____ _____
Name: _____
- 9) _____ _____
Name: _____