



08-24-2001



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U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

Socket No.: 49657-891

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

1. Name of Conveying Party: Shigehiro KUGE <i>8-20-01</i>		2. Name and address of receiving party: Name: MITSUBISHI DENKI KABUSHIKI KAISHA Address: 2-3, Marunouchi 2-Chome Chiyoda-Ku Tokyo 100-8310, JAPAN	
Additional name of conveying party attached? <input type="checkbox"/> Yes		Additional name & address attached? <input type="checkbox"/> Yes	
3. Nature of Conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other Execution Date: January 11, 2001			
4. Application number or patent number: If the document is being filed together with a new application, the execution date of the application is: A. Patent Application No. 09/725,171; Filed November 29, 2000 B. Patent No. Additional numbers attached? <input type="checkbox"/> Yes			
5. Name and address of party to whom correspondence concerning document should be mailed: Name: MCDERMOTT, WILL & EMERY Internal Address: Street Address: 600 13 th 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 <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account 8. Deposit account number: 500417	
DO NOT USE THIS SPACE			
9. Statement and signature. <i>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.</i> Stephen A. Becker, No. 26,527 <i>[Signature]</i> August 20, 2001 Name and Registration No. of Person Signing Signature Date Total number of pages comprising cover sheet: 1			
CMB No. 0851-0011 (exp. 4/94)			

08/23/2001 AMMED1 00000109 500417 09725171

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PATENT
REEL: 012092 FRAME: 0092

.ket No.: 49657-891

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>Shigehiro KUGE</u>	(4) _____	(7) _____
(2) _____	(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

SEMICONDUCTOR INTEGRATED CIRCUIT HAVING CIRCUIT FOR DATA TRANSMISSION
DISTANCE MEASUREMENT AND MEMORY PROCESSING SYSTEM WITH THE SAME

(a) for which an application for United States Letters Patent was filed on November 29, 2000, and identified by United States Serial No. 09/725,171; 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) Shigehiro Kuge
 Name: Shigehiro KUGE

January 11, 2001

2) _____
 Name: _____

3) _____
 Name: _____

4) _____
 Name: _____

5) _____
 Name: _____

6) _____
 Name: _____

7) _____
 Name: _____

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 Name: _____

9) _____
 Name: _____

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