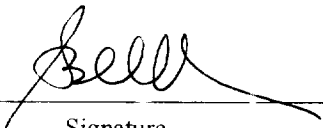


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12.16.98



FORM PTO-1596 1-31-92		REC	100931798	U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office	
Docket No.: 49657-258		PATENTS ONLY			
To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereto:					
1. Name of Conveying Parties: Yasuhiro MATSUMOTO and Mikio SAKURAI Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes			2. Name and address of receiving party: Name: Mitsubishi Denki Kabushiki Kaisha Address: 2-3, Marunouchi 2-chome Chiyoda-ku Tokyo 100-8310, JAPAN		
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: December 3, 1998			Additional name(s) & address(es) attached? <input type="checkbox"/> Yes		
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: December 3, 1998					
A. Patent Application No(s). 09/212312 (7/31/98) 100931798 100417 09212312 40 (1) 2			B. Patent No(s).		
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: 99 Canal Center Plaza, Suite 300 City: Alexandria State: VA Zip: 22314			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, 26,527					December 16, 1998
Name and Registration No. of Person Signing			Signature		Date
			Total number of pages comprising cover sheet:		1
CMB No. 0851-0011 (exp. 4/94)					



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>Yasuhiro MATSUMOTO</u>	(4) _____	(7) _____
(2) <u>Mikio SAKURAI</u>	(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 DEVICE HAVING PSEUDO-TUNING FUNCTION

(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 December 3, 1998,

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>Yasuhiro Matsumoto</u>	
Name: <u>Yasuhiro MATSUMOTO</u>	
2) <u>Mikio Sakurai</u>	
Name: <u>Mikio SAKURAI</u>	
3) _____	
Name: _____	
4) _____	
Name: _____	
5) _____	
Name: _____	
6) _____	
Name: _____	
7) _____	
Name: _____	
8) _____	
Name: _____	
9) _____	
Name: _____	

December 3, 1998

December 3, 1998