

10-22-2001



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FORM PTO-1596
1-31-92U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office**Docket No.: 57454-207****PATENTS ONLY**

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

1. Name of Conveying Parties: Hirotooshi SATO, Masaki TSUKUDE, and Ryu MAKABE <i>10/11/01</i> Additional names of conveying parties 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 Additional names & addresses 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: July 27, 2001		4. Application number or patent number: <i>09/973894</i> If the document is being filed together with a new application, the execution date of the application is: July 27, 2001 A. Patent Application No. 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> <div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div> Gene Z. Rubinson, No. 33,351 Name and Registration No. of Person Signing </div> <div style="text-align: center;"> Signature </div> <div> October 11, 2001 Date </div> </div> <div style="display: flex; justify-content: flex-end; margin-top: 10px;"> Total number of pages comprising cover sheet: 1 </div>			
CMB No. 0851-0011 (exp. 4/94)			

 jc997 U.S. PTO
 09/973894
 10/11/01

PATENT
REEL: 012256 FRAME: 0306

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>Hirotooshi SATO</u>	(4) _____	(7) _____
(2) <u>Masaki TSUKUDE</u>	(5) _____	(8) _____
(3) <u>Ryu MAKABE</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

SEMICONDUCTOR DEVICE WITH TEST MODE

(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 July 27, 2001

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

1)	<u>Hirotooshi Sato</u>
	Name: <u>Hirotooshi SATO</u>
2)	<u>Masaki Tsukude</u>
	Name: <u>Masaki TSUKUDE</u>
3)	<u>Ryu Makabe</u>
	Name: <u>Ryu MAKABE</u>
4)	_____
	Name: _____
5)	_____
	Name: _____
6)	_____
	Name: _____
7)	_____
	Name: _____
8)	_____
	Name: _____
9)	_____
	Name: _____

DATE SIGNED

July 27, 2001

July 27, 2001

July 27, 2001

PATENT

RECORDED: 10/11/2001

REEL: 012256 FRAME: 0307