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U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

1-31-92	52613 Patent and Trademark Office
Docket No.: 49657-488 PATE	NTSUNLX
	ks: Please record the attached original documents or copy thereto:
1. Name of Conveying Parties:	2. Name and address of receiving party:
Yasunori YAMASHITA, Tomohide TERASHIMA and	Name: MITSUBISHI DENKI KABUSHIKI KAISHA
Fumitoshi YAMAMOTO	P T d
9.14.99	Address: 2-3, Marunouchi 2-chome
Additional name(s) of conveying party(ies) attached? Yes	Chiyoda-ku
3. Nature of Conveyance:	Tokyo 100-8310, JAPAN
	(a) (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c
Security Agreement Change of Name	
Other	
Execution Date: August 20, 1999	
	Additional name(s) & address(es) attached? Yes
	395939
If the document is being filed together with a new application	
A. Patent Application No(s).	B. Patent No(s).
Additional nur	nbers attached? Yes
5. Name and address of party to whom correspondence	6. Total number of applications and patents involved: 1
concerning document should be mailed:	
Name: MCDERMOTT, WILL & EMERY	7. Total fee (37 CFR 3.41) \$40.00
Internal Address:	☐ Enclosed
	Authorized to be charged to deposit account
Street Address: 600 13th Street, N.W.	8. Deposit account number:
	500417
City: Washington State: DC Zip: 20005	
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.	
	2 / / ·
Gene Z. Rubinson, 33,351	J. Kutun September 14, 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)	

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FORM PTO-1596

Docket No.:

ASSIGNMENT

Mitsubishi Denki Kabushiki Kaisha of 2-3. Maxunouchi 2-chome, Chivoda-ku, TOKYO 100-8310 JAPAN its successors and assigns (hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America soffined in 35 U.S.C. 100 in the invention entitled SEMICONDUCTOR DEVICE AND METHOD OF MANUFACTURING THE SAME (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, and identified by United States Serial No, or on the undersigned hereby authorize and request the United States Commissioner of Patents and Trademarks to issue any and a United States Letters Patent which may be granted therefor and any and all extensions, divisions, reissues, substitutes, reneval united States Letters Patent which may be granted therefor and any and all extensions, divisions, reissues, substitutes, reneval united States Letters Patent which may be granted therefor and any and all extensions, divisions, reissues, substitutes, reneval United States Letters Patent which may be granted therefor and any and all extensions, divisions, reissues, substitutes, reneval united States Letters Patent of the United States under the International Convention for the Protection Industrial Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives, and vidhout further remuneration. 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 Letter Patent of the United States, upon request of the said ASSIGNEE, its successors, assigns and legal representatives, and vidhout further remuneration, in and to any improvements and applications for patents of the said ASSIGNEE in the said ASSIGNEE, its successors, assign and legal representatives, and vidhout further remuneration,	is hereby acknowledged, the undersigned, (1) Yasupori YAMASHITA (4)	(7)	
who have made a certain new and useful invention, hereby self, assign and transfer unto Mitsubishi Denki Kabushiki Kaisha of 2-3., Marunouchi 2-chome, Chivoda-ku, Tokyo 100-8310 JAPAN its successors and assigns (hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America defined in 35 U.S.C. 100 in the invention entitled SEMICONDUCTOR DEVICE AND METHOD OF MANUFACTURING THE SAME (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 _August 20, 1999, and the undersigned hereby authorize and request the United States Commissioner of Patents and Trudemarks to issue any and a United States Letters Patent which may be granted therefor and any and all extensions, divisions, reissues, substitutes, renewal condinations, 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 successor, sassigns and legal representatives, and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the said ASSIGNEE; successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and applications for pate based thereon, growing out of or related to the said invention, and to execute any papers by the said ASSIGNEE; successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and applications for pate based thereon, growing out of or related to the said invention, and to execute any papers by the said ASSIGNEE; Name:	(1) Idsunori IAMASHIIA (4) (5)	(8)	
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, Chivoda-ku, TOKYO 100-8310 JAPAN list 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 AND METHOD OF MANUFACTURING THE SAME (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 _August 20, 1999, and the undersigned hereby authorize and request the United States Commissioner of Patents and Trademarks to issue any and a United States Letters Patent which may be granted therefor and any and all extensions, divisions, reissues, substitutes, renewal continuations, or continuations—in-part thereof, and the right to all benefits under the International Convention for the Protection 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 applications for pate based thereon, growing out of or related to the state National Control of the Protection and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the said ASSIGNEE, successors, assigns and legal representatives, and without further remuneration, in and to any improvements and applications for pate based thereon, growing out of or related to the state inventor and to execute any papers by the aid ASSIGNEE, is successors, assign and legal representatives, and without further remuneration, in and to the invention hereby transferred. Name:		(9)	
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Serial No			
and the undersigned hereby authorize and request the United States Commissioner of Patents and Trademarks to issue any and a United States Letters Patent which may be granted therefor and any and all extensions, divisions, reissues, substitutes, renewal 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 interests at 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 amprovements, and applications for pate based thereon, growing out of or related to the said invention; and to execute any papers by the said ASSIGNEE, its successors, assign 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: NVENTORS DATE SIGNED 1)	(a) for which an application for United States Letters Patent w Serial No; or	ras filed on, and identified by United State:	
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Name: Tomohide TERASHIMA 3) Jumilosh Juminoto Name: Fumitoshi YAMAMOTO 4) Name: 5) Name: 7) Name: 8) Name: 9)	AND the undersigned hereby agree to transfer a like im and obtaining original, divisional, reissued or extended Letters successors, assigns and legal representatives, and without further based thereon, growing out of or related to the said invention; an and legal representatives, deemed essential to ASSIGNEE's full SIGNED on the dates indicated aside our signatures: INVENTORS	terest, and to render all necessary assistance in making application for Patent of the United States, upon request of the said ASSIGNEE, it remuneration, in and to any improvements, and applications for patend to execute any papers by the said ASSIGNEE, its successors, assign Il protection and title in and to the invention hereby transferred. DATE SIGNED	
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RECORDED: 09/14/1999

PATENT REEL: 010248 FRAME: 0152