01-12-2005 102918653

U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Plea			
Name of conveying party(ies):	2. Name and address of receiving party(ies)		
Muneaki Maeno, Toshiki Morimoto, and Hiroaki Suzuki	Name: KABUSHIKI KAISHA TOSHIBA		
	Internal Address: 1-1 Shibaura 1-chome		
Additional name(s) of conveying party(ies) attached?	Minato-ku, Tokyo JAPAN Street Address:		
Nature of conveyance:	JAPAN 81		
	Street Address:		
☐ Security Agreement ☐ Change of Name			
☐ Other	City: State Zip:		
Execution Date: December 16, 2004	Additional name(s) & address(es) attached? Yes No		
Application number(s) or patent number(s)			
If this document is being filed together with a new application the exe	cution date of the application is: December 16, 2004 B. Patent No.(s)		
A. Patent Application No.(s)	D. Falent No.(3)		
Additional numbers attached?	☐ Yes ☐ No		
Name and address of party to whom correspondence			
concerning document should be mailed:	Total number of applications and patents involved:		
	7. Total fee (37 CFR 3.41) \$ 40.00		
Name: Edward B. Weller	⊠ Enclosed		
Gray Cary Ware & Freidenrich	☐ Authorized to be charged to deposit account		
Internal Address: LLP	8. Deposit account number: 07-1896		
	S. Deposit descent names of 1886		
Street			
address: 2000 University Avenue			
City Fort Dale Alto State: CA 7in: 04202	(Attach duplicate copy of this page if paying by deposit account)		
City: East Palo Alto State: CA Zip: 94303			
DO NOT USE THIS SPACE			
9. Statement and signature.			
To the best of my knowledge and belief, the foregoing information is a true copy of the original document.			
Edward B. Weller 37,468	EUB4 Dec. 29, 2004		
Name of Person Signing Reg. No.	Signature Date		
Total number of pages including cover sheet, attachments, and documents: 3			
Mail documents to be recorded with required cover sheet information to:			

Commissioner of Patents & Trademarks, Box Assignments

P.O. Box 1450, Alexandria, VA 22313

PATENT REEL: 016137 FRAME: 0361

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Attorney	Docket No.	2102651-	991170

ASSIGNMENT

WHEREAS, Muneaki MAENO of Kanagawa-ken, Japan, Toshiki MORIMOTO of Kanagawa-ken, Japan, Hiroaki SUZUKI of Kanagawa-ken, Japan made certain inventions or discoveries (or both) set forth in an Application for Letters Patent of the United States of America entitled SEMICONDUCTOR DEVICE

 issued as U.S Patent No.		
filed as U. S. Serial No.	on _	
filed herewith		

WHEREAS, KABUSHIKI KAISHA TOSHIBA, a corporation of Japan, whose address is 1-1, Shibaura 1-chome, Minato-ku, Tokyo, Japan, and who, together with its successors and assigns is hereinafter called "Assignee", is desirous of acquiring the entire right, title and interest together with the benefits and privileges hereinafter recited;

NOW, THEREFORE, for valuable consideration furnished by Assignee to us, receipt and sufficiency of which we hereby acknowledge, effective as of the date this document is executed, hereby, without reservation;

- 1. Assign, transfer and convey to Assignee the entire right, title and interest together with the benefits and privileges in and to said inventions and discoveries, said Application for Letters Patent or similar forms of protection of the United States of America, and all other applications for Letters Patent on said inventions and discoveries in whatsoever countries, including all divisional, renewal, substitute, continuation and convention applications based in whole or in part upon said inventions or discoveries, or upon said application, and any and all Letters Patent, reissues and extensions of Letters Patent or similar forms of protection granted for said inventions and discoveries or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said discoveries, said applications and said Letters Patent;
- 2. Authorize Assignee to file patent applications in any or all countries or groups of countries on any or all of said inventions and discoveries in our name or in the name of Assignee or otherwise as Assignee may deem advisable, under the International Convention or any other relevant convention or treaty or otherwise;
- 3. Authorize and request the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments to issue or transfer all said Letters Patent to Assignee, as assignee of the entire right, title and interest therein, or otherwise as Assignee may direct;
- 4. Warrant that we have not knowingly conveyed to others any rights in said inventions, discoveries, applications or patents or any license to use the same or to make, use or sell anything embodying or utilizing any of said inventions or discoveries; and that we have good right to assign the same to Assignee without encumbrance;

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5. Bind our heirs, legal representatives and assigns, as well as ourselves, to do, upon Assignee's request and at Assignee's expense, but without additional consideration to us or them, all acts reasonable serving to assure that said inventions and discoveries, said patent applications and said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by us, our heirs, legal representatives and assigns if this assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to Assignee all facts known to us relating to said inventions and discoveries or the history thereof; and to furnish Assignee with any and all documents, photographs, models, samples and other physical exhibits in our control or in the control of our heirs, legal representatives or assigns which may be useful for establishing any facts of our conceptions, disclosures, and reduction to practice of said inventions or discoveries.				
IN WITNESS WHEREOF				
Date	Signature	Muneaki Maciono Muneaki MAENO		
Data Dan 11 2004	0: 1	TUNI		

Date <u> Dec. 16 2004</u>	Signature	Muneaki Macno Muneaki MAENO
	_ •	Muneaki MAENO
Date	Signature	Toshiki Morimote Toshiki MORIMOTO
Date <u>₽∞c /6, 2∞o /</u> ∠	Signature	Niroaki Lyuki Hiroaki SUZUKI
	ALL-PURPOSE ACK	NOWLEDGMENT
State of County of) /88	
County of)	
me on the basis of satisfacto the within instrument and ac his/her/their authorized capa	ory evidence to be the knowledged to me that city(ies), and that by	personally appeared, personally known to me or proved to person(s) whose name(s) is/are subscribed to at he/she/they executed the same in his/her/their signature(s) on the instrument the erson(s) acted, executed the instrument.
		WITNESS my hand and official seal.
[Notary Seal]		Notary's Signature
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RECORDED: 12/29/2004

PATENT REEL: 016137 FRAME: 0363