Atty Docket No.:

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U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof. 1. Name of conveying party(ies): 2. Name and address of receiving party(ies): Tomohiro YAMASHITA MITSUBISHI DENKI KABUSHIKI KAISHA MRD Address: 2-3, Marunouchi 2-chome, Chiyoda-ku, 10-2.02 Tokyo 100-8310 Japan Additional name(s) of conveying party(ies) attached?

Yes
No 3. Nature of Conveyance: Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name ☐ Other Additional name(s) and address(es) attached? ☐Yes No Execution Date: August 23, 2002 10261509 4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: B. Patent No.(s) A. Patent Application No.(s) Additional numbers attached?

Yes No 5. Name and address of party to whom correspondence 6. Total applications and patents involved: 1 concerning document should be mailed: 7. Total fee (37 CFR 3.41): \$40.00 Enclosed ☐ Authorized to be charged to deposit account 22850 8. Deposit account number: 15-0030 (Attach duplicate copy of this page if paying by deposit account) DO NOT USE THIS SPACE 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. Marvin J. Spivak Name of Person Signing Registration Number: 24,913 Total number of pages including this cover sheet: 3 Do not detach this portion Mail documents to be recorded with required cover sheet information to: Commissioner of Patents and Trademarks 10/04/2002 GGEBREGI 00000014 10261509 **Box Assignments** Washington, D.C. 20231 40.00 DP 02 FC:581

> PATENT REEL: 013357 FRAME: 0238

	KAISHA, 2-3, Marunouchi 2-chome, Chiyoda-ku, TOKYO 100-8310 JAPAN	
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	, respective	ely
	have invented certain new and useful improvements in: SEMICONDUCTOR DEVICE INCLU	D
	LOW-RESISTANCE WIRES ELECTRICALLY CONNECTED TO IMPURITY LAYERS	
1	for which an application for Letters Patent was executed on August 23, 2002	
	(Application No, filed), a	m
	WHEREAS,MITSUBISHI DENKI KABUSHIKI KAISHA	
	WHEREAS,	
	(hereinafter referred to as "ASSIGNEE") having a place of business at:	
	2-3, Marunouchi 2-chome, Chiyoda-ku, TOKYO 100-8310 JAPAN	
	is desirous of acquiring the entire right, title and interest in and to said invention and in and to a Letters Patent that may be granted therefore in the United States and its territorial possessions and any and all foreign countries;	ar;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

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PATENT REEL: 013357 FRAME: 0239 I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his) representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letter Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of Oblon, Spivak, McClelland, Maier & Neustadt, P.C. of Fourth Floor, 1755 Jefferson Davis Highway, Arlington, Virginia 22202 the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date:_	August 23, 2002	Jonehiro Jamarfuta (Signature of Inventor) Tomohiro YAMASHITA
Date:_		
Date:_		(Signature of Inventor)

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C.

ATTORNEYS AT LAW FOURTH FLOOR 1755 JEFFERSON DAVIS HIGHWAY ARLINGTON, VIRGINIA 22202

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RECORDED: 10/02/2002

PATENT REEL: 013357 FRAME: 0240