Atty Docket No.: 216232US2S

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12-27-2001

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Yoshinori KUMURA; Hiroyuki KANAYA; and Iwao KUNISHIMA	Name: KABUSHIKI KAISHA TOSHIBA Address: 1-1, Shibaura 1-chome,	
Additional name(s) of conveying party(ies) attached? □Yes ☒No	Minato-Ku, Tokyo, Japan	
3. Nature of Conveyance:		
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Execution Date: December 10, 2001	Additional name(s) and address(es) attached? □Yes ⊠No	
4. Application number(s) or patent number(s):		
If this document is being filed together with a new application, th	e execution date of the application is:	
A. Patent Application No.(s)	B. Patent No.(s)	
09/988,138		
Additional numbers at	ttached? □Yes ⊠No	
5. Name and address of party to whom correspondence concerning document should be mailed:	6. Total applications and patents involved: 1	
	7. Total fee (37 CFR 3.41): \$40.00	
	☑ Enclosed☐ Authorized to be charged to deposit account	
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9. Statement and signature To the best of my knowledge and belief, the foregoing information of the original document. Marvin J. Spivak Name of Person Signing Registration Number: 24 913 Joseph	A. Scafetta, Jr. Date A. Scafetta, Jr.	
9. Statement and signature To the best of my knowledge and belief, the foregoing information of the original document. Marvin J. Spivak Name of Person Signing Registration Number: 24 913 Joseph	A. Scafetta, Jr. A. Scafetta, Jr. A. Scafetta, Jr. A. Scafetta, Jr. Ation No. 26,803	
9. Statement and signature To the best of my knowledge and belief, the foregoing information of the original document. Marvin J. Spivak Name of Person Signing Registration Number: 24,913 Joseph Registration	A. Scafetta, Jr. A. Scafetta, Jr. A. Scafetta, Jr. A. Scafetta, Jr. Ation No. 26,803	
9. Statement and signature To the best of my knowledge and belief, the foregoing information of the original document. Marvin J. Spivak Name of Person Signing Registration Number: 24,913 Joseph Registration	A. Scafetta, Jr. A. Scafetta, Jr. A. Scafetta, Jr. A. Scafetta, Jr. Ation No. 26,803 S cover sheet: 3	
9. Statement and signature To the best of my knowledge and belief, the foregoing information of the original document. Marvin J. Spivak Name of Person Signing Registration Number: 24,913 Total number of pages including thi	A. Scafetta, Jr. Ation No. 26,803 Scover sheet: 3	
9. Statement and signature To the best of my knowledge and belief, the foregoing information of the original document. Marvin J. Spivak Name of Person Signing Registration Number: 24,913 Total number of pages including thi	A. Scafetta, Jr. Signature Date A. Scafetta, Jr. A. Scafetta, Jr. Stion No. 26,803 s cover sheet: 3	

PATENT REEL: 012387 FRAME: 0093

ASSIGNMENT

In consideration of value received, I, having a mailing address at c/o Intellectual Property Division, KABUSHIKI KAISHA TOSHIBA, 1-1 Shibaura 1-chome, Minato-ku, Tokyo 105-8001, Japan and a residence as stated below next to my name, the sole inventor (if only one name is listed below) or a joint inventor (if plural inventors are listed below) of an invention described in an application for United States patent entitled:

SEMICONDUCTOR DEVICE AND METHOD OF MANUFACTURING THE SAME

said application having been filed on November 19, 2001 and assigned Application No. 09/988,138; sell and assign to KABUSHIKI KAISHA TOSHIBA a corporation of Japan, having a business address at 1-1 Shibaura 1-chome, Minato-Ku, Tokyo, Japan

its successors, assigns or nominees, hereinafter referred to as "Assignee", my entire right, title and interest in and to said invention as disclosed, shown and described in said application for United States patent: (check one)

- X executed concurrently herewith;
- executed separately herefrom:

and in and to all applications for patent and patents for said invention, in all countries of the world, including all divisions, reissues, continuations, substitutions and extensions thereof and all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property, including rights of priority, resulting from the filing of any of said applications: and I authorize and request any official whose duty is to issue patents, to issue any patent on said invention or resulting therefrom to said Assignee, and I agree that on request and without further consideration. but at the expense of said Assignee, I will communicate to said Assigned or its representatives all facts known to me respecting said invention and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue, or other applications, make all rightful oaths and declarations, and generally do everything possible to aid said Assignee to obtain and enforce proper patent protection for said invension in all countries.

I hereby grant the following law firm the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the Rules of the U.S. Patent and Trademark Office for recordation of this document.

Oblon, Spivak, McClelland, Maier & Neustadt, P.C., Fourth Floor, 1755 Jefferson Davis Highway, Arlington, Virginia 22202

> PATENT REEL: 012387 FRAME: 0094

ASSIGNMENT

Inventor: (Signature)	Date	Residence
Yoshinoti Kumura Yoshinori Kumura	DEC. 1 O. 2001	Yokohama-shi, Japan
Hiroyulzi Vanaya	DEC. 1 O. 2001	Yokohama-shi, Japan
Jugao Kunishima	DEC. 1 O. 2001	Yokohama-shi, Japan
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RECORDING OFFICER:

After recording please return to:
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