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Alexandria, VA 22313-1450				400000
			Attorney Docket No.	<u>130070</u>
Please record the attached original	•			
Total number of pages including cover sheet, attachments, and document: 8				
1. A. Name of conveying particle [1]Sachiko KAWAJI [2]Masayasu ISHIKO [3]Takahide SUGIYA [4]Masanori USUI [5]Jun SAITO [6]Koji HOTTA B. Additional name(s) of co)	KABU: KENK' 41-1, A NAGA' AICHI- JAPAN TOYO' 1, TOY	nd address of receiving p SHIKI KAISHA TOYO YUSHO ZA YOKOMICHI, OA KUTE, NAGAKUTE-C GUN, AICHI-KEN, 48 (FA JIDOSHA KABUSI OTA-CHO, TOYOTA- KEN, 471-8571 JAPA)	TA CHUO ZA HO 0-1192 HIKI KAISHA SHI
<u></u>		1110111	, , , , , , , , , , , , , , , , , , ,	•
A. Nature of conveyance: Assignment Security Agreement	☐ Merger☐ Change of Name	B. Addition	nal name(s) & address(e □Yes	s) attached?
·	-			
Other <u>Record to correct Assignee name on an assignment document previously recorded on November 9.</u>				
2006, reel 018600/frame 0694	1			
B. Execution Date: [1]-[4 [6] October 25, 2006.] October 17, 2006; [5] &			
4. A. Patent Application No.	11/596,063	B. Patent N		
Additional numbers attached? 🔲 Yes 🗵 No				
C. Title of Application: SEMICONDUCTOR DEVICE				
Name and address of party to whom correspondence concerning document should be mailed:		6. Total number of applications and patents involved: 1		
Name: <u>James A. Oliff</u>		7. Please charge Deposit Account No. 15-0461 the total fee (37 CFR 3.41) in the amount of \$40.00.		
Address: OLIFF & BERRIDGE, PLC P.O. Box 320850 Alexandria, VA 22320-4850 Phone Number: 703-836-6400 Fax Number: 703-836-2787		Credit any overpayment or charge any underpayment to deposit account number 15-0461.		
Statement and signature. To the best of my knowledge the original document.	and belief, the foregoing inform			
James A. Oliff, Registration !	 No. 27,075	D	ate: <u>October 26, 200</u>	<u> </u>
John A. Radi Registration No				

PATENT REEL: 020037 FRAME: 0119

OLIFF & BERRIDGE, PLC S£7096063 A 35 581 - 40 IAP12 Mail Stoo: RECORDATION FORM COVER SHEET U.S. DEPARTMENT OF COMMERCE Assignment Recordation Services Patent and Trademark Office Director of the U.S. Patent 11-17-2006 and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450 103337766 Attorney Docket No. <u>13007</u>0 Please record the attached original document or copy thereof. 1. A. Name of conveying perty(ies); Name and address of receiving party(ics): (1) Sachiko KAWAJI KABUSHIKI KAISHA TOYOTA CHUO (2) Masayasu ISHIKO KENKYUSHO (3) Takahide SUGIYAMA 41-1, AZA YOKOMICHI, OAZA (4) Masanori USUI NAGAKUTE, NAGAKUTE-CHO (5) Jun SAITO AICHI-GUN, AICHI-KEN, 480-1192 (6) Koji HOTTA **JAPAN** TOYOTA JIDOSHA KABUSHIKI KAISHA Additional name(s) of conveying party(ies) attached? 1, TOYOTA-CHO, TOYOTA-SHI AICHI-KEN, 471-8571 JAPAN Α. Nature of conveyance: B. Additional name(s) & address(cs) attached? □ Yes ⊠ No Assignment ☐ Merger Security Agreement ☐ Change of Name Other_ Execution Date: (1-4) October 17, 2006 В. (5-6) October 25, 2006 $\overline{\mathbf{z}}$ This document is being filed together with a new application. Patent Application No.(s) B. Patent No.(s) Additional numbers attached?

Yes

No C. Title of Application: <u>SEMICONDUCTOR DEVICES</u>

04 FC:8021

Name: <u>James A. Oliff</u> 11/16/2006 ATRAN1 00090093 11596063

(40.00 GP

OLIFF & BENRIDGE P.O. Box 19928 Alexandria, VA 22320

Name and address of party to whom correspondence

concerning document should be mailed:

Total number of applications and patents involved: $\underline{1}$

Enclosed (Check No. 186122_)

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Date: November 9, 2006

Statement and signature.

To the bost of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of

the origin

OlificRegistration No. 27,075 James

Kem Registration No. 42,719 John

Total number of pages including cover sheet, attachments, and document: $\underline{5}$

PATENT

REEL: 020037 FRAME: 0120

(4)

ASSIGNMENT FOR US PATENT APPLICATION

WHEREAS, the undersigned inventors, Sachiko KAWAJI of Owariasahi-shi, Aichi-ken, Japan, Masayasu ISHIKO of Nagoya-shi, Aichi-ken, Japan, Takahide SUGIYAMA of Aichi-gun, Aichi-ken, Japan and Masanori USUI of Seto-shi, Aichi-ken, Japan (hereinafter referred to as "the Assignors"), have invented certain new and useful improvements in "SEMICONDUCTOR DEVICES", for which an International patent application was filed on May 12, 2005 and was assigned serial number PCT/JP2005/008717; and

WHEREAS, KABUSHIKI KAISHA TOYOTA CHUO KENKYUSHO, a corporation duly organized under and pursuant to the laws of Japan, and having a principal place of business at 41-1, Aza Yokomichi, Oaza Nagakute, Nagakute-cho, Aichi-gun, Aichi-ken, 480-1192 Japan, (hereinafter referred to as "the Assignee") is desirous of acquiring the entire right, title and interest of the Assignors in and to said improvements, the entire right, title and interest of the Assignors in and to any US patent application(s) based on said improvements, and in and to any Patent(s) of the United States, to be obtained therefor and thereon;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, the Assignors have sold, assigned, transferred, and set over, do hereby sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns, the entire right, title, and interest of the Assignors in and to the abovementioned improvements, the entire right, title and interest of the Assignors in and to any US patent applications and any and all Patents of the United States of America that may be granted therefor and thereon, and in and to any and all applications claiming priority to said applications, divisions, continuations, and continuations-in-part of said applications, and reissues and extensions of said Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, to the full end of the term or terms for which Patents may be granted as fully and entirely as the same would have been held and enjoyed by the Assignors had this sale and assignment not been made;

AND for the same consideration, the Assignors hereby covenant to and agree with the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignors are the sole and lawful owners of the entire right, title, and interest in and to the improvements set forth in said above-mentioned application, and that the same right, title, and interest are unencumbered, and that the Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth;

AND for the same consideration, the Assignors hereby covenant to and agree with the Assignee, its successors, legal representatives, and assigns that the Assignors will, whenever counsel of the Assignee, or the counsel of its successors, legal representatives, and assigns, shall advise that any proceeding in connection with said improvements or said applications for Patents, or any proceeding in connection with Patents for said improvements in the United States of America, including interference proceedings, is lawful and desirable, or that any application claiming priority to said application, division, continuation, or continuation-in-part of any applications for Patents, or any reissue or extension of any Patents to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement, and defense of Patents for said improvements, without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, their successors, legal representatives, and assigns;

AND the Assignors hereby request the Commissioner of Patents and Trademarks to issue any and all said Patent(s) of the United States to the Assignee as the Assignee of said improvements, the Patent(s) to be issued for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

Date: October 17, 2006 Name of Assignor Sachiko Kawayi

Masayasu Ochikg Masayasu ISHIKO Date: October 17. 2006 Name of Assignor

Date: October 17, 2006 Name of Assignor Takahide Augistama

Takahide SUGIYAMA

Date: October 17. 2006 Name of Assignor Masanori Usur Masanori USUI

ASSIGNMENT FOR US PATENT APPLICATION

WHEREAS, the undersigned inventors, Jun SAITO of Toyota-shi, Aichi-ken, Japan and Koji HOTTA of Nishikamo-gun, Aichi-ken, Japan (hereinafter referred to as "the Assignors"), have invented certain new and useful improvements in "SEMICONDUCTOR DEVICES", for which an International patent application was filed on May 12, 2005 and was assigned serial number PCT/JP2005/008717; and

WHEREAS, TOYOTA JIDOSHA KABUSHIKI KAISHA, a corporation duly organized under and pursuant to the laws of Japan, and having a principal place of business at 1, Toyota-cho, Toyota-shi, Aichi-ken, 471-8571 Japan, (hereinafter referred to as "the Assignee") is desirous of acquiring the entire right, title and interest of the Assignors in and to said improvements, the entire right, title and interest of the Assignors in and to any US patent application(s) based on said improvements, and in and to any Patent(s) of the United States, to be obtained therefor and thereon;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, the Assignors have sold, assigned, transferred, and set over, do hereby sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns, the entire right, title, and interest of the Assignors in and to the above-mentioned improvements, the entire right, title and interest of the Assignors in and to any US patent applications and any and all Patents of the United States of America that may be granted therefor and thereon, and in and to any and all applications claiming priority to said applications, divisions, continuations, and continuations-in-part of said applications, and reissues and extensions of said Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, to the full end of the term or terms for which Patents may be granted as fully and entirely as the same would have been held and enjoyed by the Assignors had this sale and assignment not been made;

AND for the same consideration, the Assignors hereby covenant to and agree with the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignors are the sole and lawful owners of the entire right, title, and interest in and to the improvements set forth in said above-mentioned application, and that the same right, title, and interest are unencumbered, and that the Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth;

AND for the same consideration, the Assignors hereby covenant to and agree with the Assignee, its successors, legal representatives, and assigns that the Assignors will, whenever counsel of the Assignee, or the counsel of its successors, legal representatives, and assigns, shall advise that any proceeding in connection with said improvements or said applications for Patents, or any proceeding in connection with Patents for said improvements in the United States of America, including interference proceedings, is lawful and desirable, or that any application claiming priority to said application, division, continuation, or continuation-in-part of any applications for Patents, or any reissue or extension of any Patents to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement, and defense of Patents for said improvements, without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, their successors, legal representatives, and assigns;

AND the Assignors hereby request the Commissioner of Patents and Trademarks to issue any and all said Patent(s) of the United States to the Assignee as the Assignee of said improvements, the Patent(s) to be issued for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

Date: 25/10/2006 Name of Assignor Jun Saito

Jun SAITO

Date: 25/10/2006 Name of Assignor Koji Hotter
Koji HOTTA

PATENT

RECORDED: 10/26/2007

REEL: 020037 FRAME: 0124

2