

**PATENT ASSIGNMENT**

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

**CONVEYING PARTY DATA**

Name	Execution Date
Hiroyuki UEDA	06/23/2009
Tsutomu UESUGI	07/02/2009
Masakazu KANECHIKA	06/24/2009
Tetsu KACHI	06/24/2009

**RECEIVING PARTY DATA**

Name:	KABUSHIKI KAISHA TOYOTA CHUO KENKYUSHO
Street Address:	41-1, Aza Yokomichi, Oaza Nagakute, Nagakute-cho, Aichi-gun
City:	Aichi-ken
State/Country:	JAPAN
Postal Code:	480-1192

**PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	12544451

**CORRESPONDENCE DATA**

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Total Attachments: 2  
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OP \$40.00 12544451

**500958722**

**PATENT  
 REEL: 023213 FRAME: 0034**



ASSIGNMENT FOR US PATENT APPLICATIONS

WHEREAS, the undersigned inventors, Hiroyuki UEDA of Kasugai-shi, Aichi-ken, Japan, Tsutomu UESUGI of Seto-shi, Aichi-ken, Japan, Masakazu KANECHIKA of Aichi-gun, Aichi-ken, Japan and Tetsu KACHI of Nisshin-shi, Aichi-ken, Japan (hereinafter referred to as "the Assignors"), are the co-inventor of certain new and useful improvements in "SEMICONDUCTOR DEVICE", and are the joint owner of the entire right, title and interest in and to said improvements;

WHEREAS, KABUSHIKI KAISHA TOYOTA CHUO KENKYUSHO, a corporation duly organized under 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;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, the Assignors have sold, assigned, transferred, and set over, does hereby sell, assign, transfer, and set over, unto the Assignee, its successors and legal representatives, the entire right, title and interest of the Assignors in and to said improvements, wherein the above-mentioned entire right, title and interest of the Assignors includes the entire right, title and interest in and to any Japanese patent applications for said improvements, in and to any and all Japanese Patents that may be granted therefor and thereon, in and to any patent applications which may be filed in United States of America (hereinafter "US") for said improvements, in and to any and all US Patents that may be granted therefor and thereon, in and to any and all applications claiming priority to said applications, in and to any divisions, continuations, and continuations-in-part of said applications, and reissues and extensions of said Patents;

AND the Assignors hereby confirm that the Assignee has filed Japanese patent application for said improvements on August 21, 2008 to which serial No. 2008-213193 has been assigned;

AND for the same consideration, the Assignors hereby covenant to and agrees with the Assignee, its successors and legal representatives that the Assignors will sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the prosecution, procurement, maintenance, enforcement, and defense of the above mentioned patent applications and Patents for said improvements, without charge to the Assignee, its successors and legal representatives, but at the cost and expense of the Assignee, its successors and legal representatives;

AND Assignors hereby authorize the Assignee, its successors and legal representatives, or anyone it may properly designate, to insert below the filing date and serial number of said US patent application, when said filing date and serial number become available:

US Patent Application Serial No. 12/544,451 Filing Date August 20, 2009 ;

AND the Assignors hereby request the Commissioner of US Patent and Trademark Office to issue any and all said US Patents that may be granted upon any of the above-mentioned applications, in the name of the Assignee, its successors and legal representatives.

Date: 23/06/2009 Name of Assignor Hiroyuki Ueda  
Hiroyuki UEDA

Date: 2009. 7. 2 Name of Assignor Tsutomu Uesugi  
Tsutomu UESUGI

Date: 2009. 6. 24 Name of Assignor Masakazu Kanechika  
Masakazu KANECHIKA

Date: 24/06/2009 Name of Assignor <sup>T.K. 24/06/2009</sup> Tetsu Tetsu Kachi  
Tetsu KACHI