

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Kiyofumi Nakajima	02/03/2011
Hiroshi Osada	02/03/2011
Yukio Miyachi	02/03/2011

RECEIVING PARTY DATA

Name:	Toyota Jidosha Kabushiki Kaisha
Street Address:	1, Toyota-cho
City:	Toyota-shi, Aichi-ken
State/Country:	JAPAN
Postal Code:	471-8571

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13059664

CORRESPONDENCE DATA

Fax Number: (248)647-5210
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.
 Phone: 248-647-6000
 Email: docket@patlaw.com
 Correspondent Name: GIFFORD, KRASS, SPRINKLE, ANDERSON & CITK
 Address Line 1: PO BOX 7021
 Address Line 4: TROY, MICHIGAN 48007-7021

ATTORNEY DOCKET NUMBER:	TMCO-10202/08
NAME OF SUBMITTER:	Thomas E. Anderson

Total Attachments: 3
 source=Assignment#page1.tif
 source=Assignment#page2.tif

OP \$40.00 13059664

501444334

PATENT
REEL: 025838 FRAME: 0572

ASSIGNMENT BY INVENTORS

THIS ASSIGNMENT, made this 3rd day of February, 2011,
by (1) Kiyofumi NAKAJIMA, (2) Hiroshi OSADA and (3) Yukio MIYACHI (hereinafter
referred to as Assignors), residing at (1) Toyota-shi, Aichi, Japan, (2) Komaki-shi, Aichi,
Japan and (3) Owariasahi-shi, Aichi, Japan, respectively;

WHEREAS, Assignors have invented certain new and useful improvements in
(title) SEMICONDUCTOR APPARATUS

a Patent application for Letters Patent of the United States, filed on 2/18/11

as U.S. Application No. 131059, 1004 and

WHEREAS, (1) TOYOTA JIDOSHA KABUSHIKI KAISHA organized under
and pursuant to the laws of Japan having its principal place of business at (1) 1, Toyota-cho,
Toyota-shi, Aichi 471-8571 Japan, (hereinafter referred to as Assignee), is desirous of
acquiring the entire right, title and interest in and to said inventions and said Application for
Letters Patent of the United States, and in and to any Letters Patent of the United States to be
obtained therefore and thereon.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and
sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold,
assigned, transferred and set over, and by these presents do sell, assign, transfer and set over,
unto Assignee, its successors, legal representatives and assigns, the entire right, title and
interest in and to the above-mentioned inventions and application for Letters Patent, and in and
to any and all direct and indirect divisions, continuations and continuations-in-part of said
application, and any and all Letters Patent in the United States and all foreign countries which
may be granted therefor and thereon, and reissues, reexaminations and extensions of said
Letters Patent, and all rights under the International Convention for the Protection of Industrial
Property, the same to be held and enjoyed by Assignee, for its own use and benefit and the use
and benefit of its successors, legal representatives and assigns, to the full end of the term or
terms for which Letters Patent may be granted and/or extended, as fully and entirely as the

same would have been held and enjoyed by Assignors, had this sale and assignment not been made.

AND for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that 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, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will 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 any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

AND Assignors hereby request the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

AND Assignors hereby grant the following individuals 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 United States Patent and Trademark Office for recordation of this document:

GIFFORD, KRASS, SPRINKLE, ANDERSON & CITKOWSKI, P.C.

All practitioners at Customer Number 25006

AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

Date: February 3, 2011

Signature:

Kiyofumi Nakajima

Inventor Kiyofumi NAKAJIMA

Date: February 3, 2011

Signature:

Hiroshi Osada

Inventor Hiroshi OSADA

Date: February 3, 2011

Signature:

Yukio Miyachi

Inventor Yukio MIYACHI

Date: _____

Signature: _____

Inventor