

5-15-07

FORM PTO-1595 (Rev. 07/05)  
- OMP No. 0651-0027  
(exp 6/30/2008)

05-22-2007



103408330

U.S. Department of Commerce  
Patent and Trademark Office  
Attorney Docket No. 09227.0028  
Attorney Customer Number: 22,852

To the Director of the U.S. Patents and

ed original documents or copy thereof.

1. Name of conveying parties:

- 1) Masahiro SUGIMOTO
- 2) Tsutomu UESUGI
- 3) Hiroyuki UEDA
- 4) Narumasa SOEJIMA
- 5) Tetsu KACHI

Additional name of conveying party attached?  Yes  No

2. Name and address of receiving party:

Name: TOYOTA JIDOSHA KABUSHIKI KAISHA

Internal Address: 1, Toyota-cho, Toyota-shi, Aichi-ken, 471-8571 Japan

3. Nature of conveyance/Execution Dates: 1) May 7, 2007; 2) May 8, 2007; 3) May 8, 2007; 4) May 8, 2007; 5) May 8, 2007

- Assignments  Merger
- Security Agreement  Change of Name
- Joint Research Agreement
- Government Interest Assignment
- Executive Order 9424, Confirmatory License
- Other

Street Address:

City:

State:

Zip Code:

Additional name & Address attached?

- Yes
- No

4. Application number or patent number: 11/667,135  This document is being filed together with a new application.

A. Patent Application Number:

B. Patent Number:

Additional numbers attached?

- Yes
- No

5. Name and address of to whom correspondence concerning document should be mailed:

Name: Mr. Ernest F. Chapman

6. Total number of applications and registrations involved: 1

7. Total fee (37 CFR 3.41): \$40

- Authorized to be charged by credit card
- Authorized to be charged to deposit account
- Enclosed (Please charge deficiency to deposit account)
- None required (government interest not affecting title)

05/17/2007 MKAYPAGH 00000016 11667735

05 FC:8021

40.00 DP

Internal Address: FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P.

Street Address: 901 New York Avenue, NW

City: Washington, D.C.

State: Zip: 20001-4413

8. Payment Information.

a. Credit Card Last 4 Numbers \_\_\_\_\_  
Expiration Date \_\_\_\_\_

b. Deposit Account No.: 06-0916

9. 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.

Ernest F. Chapman  
Reg. No. 25, 961

Signature

May 15, 2007  
Date

Total number of pages including cover sheet, attachments and documents: 5

## ASSIGNMENT FOR US PATENT APPLICATION

WHEREAS, the undersigned inventor, Masahiro SUGIMOTO of Toyota-shi, Aichi-ken, Japan (hereinafter referred to as "the Assignor"), has invented certain new and useful improvements in "SEMICONDUCTOR DEVICES AND METHOD OF MANUFACTURING THEM", for which an International patent application was filed on November 14, 2005 and was assigned serial number PCT/JP2005/021195; 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 Assignor in and to said improvements, the entire right, title and interest of the Assignor 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 Assignor has 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 Assignor in and to the above-mentioned improvements, the entire right, title and interest of the Assignor 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 Assignor had this sale and assignment not been made;

AND for the same consideration, the Assignor hereby covenants to and agrees with the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignor is the sole and lawful owner 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 Assignor has 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 Assignor hereby covenants to and agrees with the Assignee, its successors, legal representatives, and assigns that the Assignor 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 Assignor hereby requests 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: May 7, 2007 Name of Assignor Masahiro Sugimoto  
Masahiro SUGIMOTO

### ASSIGNMENT FOR US PATENT APPLICATION

WHEREAS, the undersigned inventors, Tsutomu UESUGI of Seto-shi, Aichi-ken, Japan, Hiroyuki UEDA of Kasugai-shi, Aichi-ken, Japan, Narumasa SOEJIMA of Nisshin-shi, Aichi-ken, Japan and Tetsu KACHI of Nisshin-shi, Aichi-ken, Japan (hereinafter referred to as "the Assignors"), have invented certain new and useful improvements in "SEMICONDUCTOR DEVICES AND METHOD OF MANUFACTURING THEM", for which an International patent application was filed on November 14, 2005 and was assigned serial number PCT/JP2005/021195; 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.

T.U. 2007.5.8

Date: (<sup>8/5/2007</sup>~~7/4/2007~~) Name of Assignor ( Tsutomu Uesugi )  
Tsutomu UESUGI

Date: (<sup>8/5/2007</sup>~~7/4/2007~~) Name of Assignor ( Hiroyuki Ueda )  
Hiroyuki UEDA

N.S. 2007.5.8

Date: (<sup>8/5/2007</sup>~~7/4/2007~~) Name of Assignor ( Narumasa Soejima )  
Narumasa SOEJIMA

Date: (<sup>8/5/2007</sup>~~7/4/2007~~) Name of Assignor ( Tetsu Kachi )  
Tetsu KACHI