

Recordation Form Cover Sheet PATENTS ONLY

Attorney's Docket No. 1032404-000154

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

7-24-06

A 17581-40

10/586908

1. Name of conveying party(ies):

- 1. Akihiro GOTO
- 2. Hironori MATSUSHIMA
- 3. Hiroshige OGAWA
- 4. Yoshio MATSUDA

08-02-2006



103284515

2. Name and address of receiving party(ies):

- 1. MITSUBISHI DENKI KABUSHIKI KAISHA
7-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo 100-8310 Japan
- 2. RENESAS TECHNOLOGY CORP.
4-1, Marunouchi 2-chome, Chiyoda-ku, Tokyo 100-6334

10/586908

3. Nature of Conveyance/Execution Date(s):

Execution Date(s): 1. April 14, 2006, 2. April 14, 2006, 3. April 14, 2006 and 4. April 17, 2006

- | | |
|--|--|
| <input checked="" type="checkbox"/> Assignment | <input type="checkbox"/> Executive Order 9424 Confirmatory License |
| <input type="checkbox"/> Security Agreement | <input type="checkbox"/> Merger |
| <input type="checkbox"/> Joint Research Agreement | <input type="checkbox"/> Change of Name |
| <input type="checkbox"/> Government Interest Agreement | |
| <input type="checkbox"/> Other: _____ | |

4. Application or patent number(s):

- A. Patent Application No.(s)
- B. Patent No.(s)

This document is being filed together with a new application.

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

Name: James A. LaBarre
 Address: Buchanan Ingersoll & Rooney pc
 Customer Number 21839
 P.O. Box 1404
 Alexandria, VA 22313-1404

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40

- Authorized to be charged by credit card. PTO Form 2038 attached.
- Authorized to be charged to deposit account 02-4800
- Enclosed.
- None required (gov't interest not affecting title)

07/31/2006 MKAYPAGH 00000005 10586908

04 FC:8021

40.00 DP

8.

Signature: _____ 28632 _____ July 24, 2006 _____
 Signature Reg. No. Date

James A. LaBarre
 Name of Person Signing

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

3

ASSIGNMENT (JOINT)

THIS ASSIGNMENT, by Akihiro GOTO, residing at c/o MITSUBISHI DENKI KABUSHIKI KAISHA, 7-3, Marunouchi 2-chome, Chiyoda-ku, TOKYO 100-8310 JAPAN, Hironori MATSUSHIMA, residing at c/o Renesas Technology Corp., 4-1, Marunouchi 2-chome, Chiyoda-ku, TOKYO 100-6334 JAPAN, Hiroshige OGAWA and Yoshio MATSUDA, residing at c/o KDL Corporation, 3-13-21, Kushiro, Kawanishi-shi, HYOGO 666-0024 JAPAN (hereinafter referred to as "the Assignors"), respectively, witnesseth:

WHEREAS, the Assignors have invented certain new and useful improvements in DESIGN SUPPORT APPARATUS FOR SEMICONDUCTOR DEVICES set forth in an application for Letters Patent of the United States, which is a

- (1) provisional application
 - (a) bearing Application No. _____, and filed on _____;
 - (b) to be filed herewith; or
- (2) non-provisional application
 - (a) bearing Application No. PCT/JP2004/16243, and filed on November 1, 2004;
 - (b) having an oath or declaration executed on even date herewith prior to filing of application;
 - (c) having an oath or declaration executed on a different date than this Assignment; and

WHEREAS, MITSUBISHI DENKI KABUSHIKI KAISHA, a corporation duly organized under and pursuant to the laws of Japan and having a principal place of business at 7-3, Marunouchi 2-chome, Chiyoda-ku, TOKYO 100-8310 JAPAN (hereinafter referred to as "the Assignee"), and

Renesas Technology Corp., a corporation duly organized under and pursuant to the laws of Japan and having a principal place of business at 4-1, Marunouchi 2-chome, Chiyoda-ku, TOKYO 100-6334 JAPAN (hereinafter referred to as "the Assignee"),

are desirous of acquiring the entire right, title, and interest in and to said inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications, including provisional applications for Letters Patent of the United States or other countries claiming priority to said application, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon.

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, the Assignors have sold, assigned, transferred, and set over, and by these presents do sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns the entire right, title, and interest in and to the above-mentioned inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications for Letters Patent of the United States or other countries claiming priority to said applications, and any and all Letters Patent or Patents of the United States of America and all foreign countries 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 Letters Patent or 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 behoof and the use and behoof of its successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent or 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;

Application No.
Attorney Docket No.

AND for the same consideration, the Assignors hereby covenant and agree to and 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 inventions set forth in said applications and said applications, including provisional applications, above-mentioned, and that the same 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 and agree to and 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 inventions or said applications for Letters Patent or Patents, or any proceeding in connection with Letters Patent or Patents for said inventions in any country, 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 Letters Patent or Patents, or any reissue or extension of any Letters Patent or 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 Letters Patent or Patents for said inventions, without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns;

AND the Assignors hereby authorize and request the attorneys of Buchanan Ingersoll PC (including attorneys from Burns, Doane, Swecker & Mathis) to insert in the spaces provided above the title of the invention, filing date, application number, and attorney's docket number of said application when known.

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

DATE Apr. 14, 2006

Akihiro Goto

Akihiro GOTO

DATE _____

Hironori MATSUSHIMA

DATE _____

Hiroshige OGAWA

DATE _____

Yoshio MATSUDA

DATE _____

DATE _____

DATE _____

DATE _____

R007430501
PMDA 104061-01

Attorney Docket No. _____

ASSIGNMENT (JOINT)

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- (1) provisional application
 - (a) bearing Application No. _____, and filed on _____;
 - (b) to be filed herewith; or
- (2) non-provisional application
 - (a) bearing Application No. PCT/JP2004/16243, and filed on November 1, 2004;
 - (b) having an oath or declaration executed on even date herewith prior to filing of application;
 - (c) having an oath or declaration executed on a different date than this Assignment; and

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are desirous of acquiring the entire right, title, and interest in and to said inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications, including provisional applications for Letters Patent of the United States or other countries claiming priority to said application, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon.

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, the Assignors have sold, assigned, transferred, and set over, and by these presents do sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns the entire right, title, and interest in and to the above-mentioned inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications for Letters Patent of the United States or other countries claiming priority to said applications, and any and all Letters Patent or Patents of the United States of America and all foreign countries 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 Letters Patent or 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 behoof and the use and behoof of its successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent or 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;

Application No.
Attorney Docket No.

AND for the same consideration, the Assignors hereby covenant and agree to and 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 inventions set forth in said applications and said applications, including provisional applications, above-mentioned, and that the same 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 and agree to and 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 inventions or said applications for Letters Patent or Patents, or any proceeding in connection with Letters Patent or Patents for said inventions in any country, 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 Letters Patent or Patents, or any reissue or extension of any Letters Patent or 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 Letters Patent or Patents for said inventions, without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns;

AND the Assignors hereby authorize and request the attorneys of Buchanan Ingersoll PC (including attorneys from Burns, Doane, Swecker & Mathis) to insert in the spaces provided above the title of the invention, filing date, application number, and attorney's docket number of said application when known.

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

DATE _____	_____
DATE <u>April 14, 2006</u>	Akihiro GOTO <u>Hironori Matsushima</u> Hironori MATSUSHIMA
DATE <u>April 14, 2006</u>	<u>Hiroshige Ogawa</u> Hiroshige OGAWA
DATE <u>April 17, 2006</u>	<u>Yoshio Matsuda</u> Yoshio MATSUDA
DATE _____	_____
DATE _____	_____
DATE _____	_____
DATE _____	_____