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Shigeru Maeda and Hirotaka Mukunoki

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

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

Execution Date(s): March 23, 2007

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

2. Name and address of receiving party(ies)

Name: NIPPONKAYAKU KABUSHIKIKAISHA

Internal Address: _____

Street Address: _____

11-2, Fujimi 1-chome
Chiyoda-ku, Tokyo 102-8172
JAPAN

City: _____

State: _____

Country: _____ Zip: _____

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4. Application or patent number(s):

☐ This document is being filed together with a new application.

A. Patent Application No.(s)

11/664,462

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Thomas J. D'Amico
DICKSTEIN SHAPIRO LLP

Internal Address: Atty. Dkt.: S8810.0004/P004

Street Address: 1825 Eye Street, NW

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Fax Number: (202) 420-2201

Email Address: DAmicoT@dicksteinshapiro.com

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

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

8. Payment Information

a. Credit Card Last 4 Numbers 1002
Expiration Date 01/11

b. Deposit Account Number _____
Authorized User Name _____

9. Signature:

Signature

October 31, 2007

Date

Thomas J. D'Amico - 28,371

Name of Person Signing

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

5

11/01/2007 02EW01E1 00000146 11664462

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PATENT
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OCT 31 2007

05-18-2007

U.S. PTO
11/664462
04/27/2007

U.S. DEPARTMENT OF COMMERCE
United States Patent and Trademark Office

COVER SHEET
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b. Deposit Account Number _____

Authorized User Name _____

9. Signature:

Thomas J. D'Amico # 41,198

Signature

April 27, 2007

Date

Thomas J. D'Amico - 28,371

Name of Person Signing

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5

DSMDB-2250272v01

ASSIGNMENT BY INVENTORS

THIS ASSIGNMENT, made by Shigeru Maeda and Hirotaka Mukunoki (hereinafter referred to as Assignors), residing at c/o NIPPONKAYAKU KABUSHIKIKAISHA, Himeji Plant, 3903-39, Toyotomi, Toyotomi-cho, Himeji-shi, Hyogo 679-2123 JAPAN, respectively;

WHEREAS, Assignors have invented certain new and useful improvements in SEMICONDUCTOR BRIDGE CIRCUIT DEVICE AND IGNITER INCLUDING SEMICONDUCTOR BRIDGE CIRCUIT DEVICE, set forth in a Patent application for Letters Patent of the United States based on PCT Application No. JP/2005/018718 filed on October 4, 2005; and

WHEREAS, NIPPONKAYAKU KABUSHIKIKAISHA, a corporation organized under and pursuant to the laws of JAPAN having its principal place of business at 11-2, Fujimi 1-chome, Chiyoda-ku, Tokyo 102-8172, 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 therefore and thereon, and reissues, reexaminations and extensions of said Letters Patent, and

all rights under the International Convention for the Protection of Industrial Property including all rights of priority, 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 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:

DICKSTEIN SHAPIRO LLP

All practitioners at Customer Number 24998

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

March /23 / 2007
Date

Shigeru Maeda
Shigeru Maeda

Witness:

April 4, 2007
Date

Kiyoshi Kuruma
Kiyoshi KURUMA

Witness:

April 4, 2007
Date

Atsuko Suzuki
Atsuko SUZUKI

DSMDB-2225720v01

March / 23 / 2007
Date

Hiroataka Mukunoki
Hiroataka Mukunoki

Witness:

April 4, 2007
Date

Kiyoshi Kuruma
Kiyoshi KURUMA

Witness:

April 4, 2007

Atsuko Suzuki
Atsuko SUZUKI

DSMDB-2225720v01