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Commissioner of Patents and Trademarks

of an original document.

1. Name of conveying party(ies):

Tadatomo SUGA
Toshihiro ITO
Akira YAMAUCHI

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

Tadatomo SUGA
c/o The University of Tokyo
School of Engineering
7-3-1, Hongo, Bunkyo-ku, Tokyo
113-8656 Japan

TORAY ENGINEERING CO., LTD.
Nakanoshima Mitsui Bldg.
3-3, Nakanoshima 3-chome
Kita-ku, Osaka-shi, Osaka
530-8222 Japan

OKI ELECTRIC INDUSTRY CO., LTD.
7-12, Toranomom 1-chome, Minato-ku
Tokyo, 105-8460 Japan

SANYO ELECTRIC CO., LTD.
5-5, Keihanondori 2-chome
Moriguchi-shi, Osaka
570-8677 Japan

SHARP KABUSHIKI KAISHA
22-22, Nagaikecho, Abeno-ku, Osaka-shi
Osaka, 545-8522 Japan

SONY CORPORATION
7-35, Kitashinagawa 6-chome
Shinagawa-ku, Tokyo, 141-0001 Japan

KABUSHIKI KAISHA TOSHIBA
1-1, Shibaura 1-chome, Minato-ku
Tokyo, 105-8001 Japan

FUJITSU LIMITED
1-1, Kamikodanaka 4-chome
Nakahara-ku, Kawasaki-shi, Kanagawa
211-8588 Japan

MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.
1006, Oaza Kadoma
Kadoma-shi, Osaka
571-8501 Japan

ROHM CO., LTD.
21, Mizosakicho, Saiin, Ukyo-ku
Kyoto-shi, Koyoto
615-8585 Japan

RENESAS TECHNOLOGY CORP.
2-4-1, Marunouchi, Chiyoda-ku
Tokyo 100-6334 Japan

Additional names/addresses attached? ☐ Yes ☒ No

Additional name(s) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment
☐ Merger
☐ Security Agreement
☐ Change of Name
☐ Other:

Execution Date: March 14, 2005

(C)

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4. Application number(s) or patent number(s):

If this document is being filed with a new application, the execution date of the application is: March 22, 2005

A. Patent Application No.(s):

B. Patent No.(s):

Additional numbers attached? ☐ Yes ☒ No

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

6. Total number of applications/patents involved: 1

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

- ☒ 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: 1006

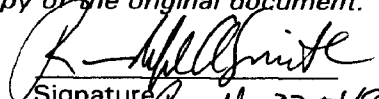
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b) Please apply any additional charges, or any credits, to our Deposit Account No. 19-2586.

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9. Statement and signature: *To the best of my knowledge and belief, the foregoing information is true and correct and the attached is a true copy of the original document.*

Randolph A. Smith
Name of Person Signing


Signature
Reg. No. 32,548

March 22, 2005
Date

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

ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the undersigned hereby assign(s), transfer(s) and set(s) over to:

- (1) Tadatomo SUGA
- (2) TORAY ENGINEERING CO., LTD.
- (3) OKI ELECTRIC INDUSTRY CO., LTD.
- (4) SANYO ELECTRIC CO., LTD.
- (5) SHARP KABUSHIKI KAISHA
- (6) SONY CORPORATION
- (7) KABUSHIKI KAISHA TOSHIBA
- (8) FUJITSU LIMITED
- (9) MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.
- (10) ROHM CO., LTD.
- (11) RENESAS TECHNOLOGY CORP.

having respective addresses:

- (1) c/o The University of Tokyo, School of Engineering, 7-3-1, Hongo, Bunkyo-ku, Tokyo, 113-8656 Japan
- (2) Nakanoshima Mitsui Bldg., 3-3, Nakanoshima 3-chome, Kita-ku, Osaka-shi, Osaka, 530-8222 Japan
- (3) 7-12, Toranomon 1-chome, Minato-ku, Tokyo, 105-8460 Japan
- (4) 5-5, Keihanondori 2-chome, Moriguchi-shi, Osaka, 570-8677 Japan
- (5) 22-22, Nagaikecho, Abeno-ku, Osaka-shi, Osaka, 545-8522 Japan
- (6) 7-35, Kitashinagawa 6-chome, Shinagawa-ku, Tokyo, 141-0001 Japan
- (7) 1-1, Shibaura 1-chome, Minato-ku, Tokyo, 105-8001 Japan
- (8) 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa, 211-8588 Japan
- (9) 1006, Oaza Kadoma, Kadoma-shi, Osaka, 571-8501 Japan
- (10) 21, Mizosakicho, Saiin, Ukyo-ku, Kyoto-shi, Kyoto, 615-8585 Japan
- (11) 2-4-1, Marunouchi, Chiyoda-ku, Tokyo, 100-6334 Japan

(hereinafter collectively designated as the "ASSIGNEE"), its successors and assigns, the entire right, title, and interest for the United States in the invention, and all applications for patent and any Letters Patent which may be granted therefor, including said application, and all United States Letters Patents which may be granted therefore, and all divisions, reissues, continuations and extensions thereof, the said interest being the entire ownership of said Letters Patent when granted to be held by said ASSIGNEE, its successors, assigns or their legal representatives, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been and enjoyed by Assignor(s) if this assignment had not been made, the application being known by the Title:

BONDING DEVICE AND METHOD

for which the undersigned has/have executed an application for patent in the United States of America on the same day herewith. Where this instrument is not filed concurrently with the application, the following identifying information may be added after execution:

Serial No.

Filing Date: March 22, 2005

1. The undersigned hereby agree(s) to sign and execute any further documents and instruments which may be necessary, lawful and proper in the prosecution of said above-named application or in the preparation and prosecution of any continuing, continuation-in-part, substitute, divisional, renewal, reviewed or reissue application or in any amendments, extension of interference proceedings, or otherwise to secure the title thereto to the ASSIGNEE.

2. The undersigned agree(s) to execute all papers and documents and perform any act that may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

3. The undersigned agree(s) to perform all affirmative acts that may be necessary to obtain a grant of a valid United States patent to the ASSIGNEE.

4. The undersigned hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks in the United States to issue any and all Letters Patents resulting from said application or any division or divisions or continuing applications thereof to the said ASSIGNEE.

5. The undersigned hereby grant(s) to Randolph A. Smith and Smith Patent Office 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.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

March 14, 2005

Date



Typed Name: Tadatomo SUGA

March 14, 2005

Date



Typed Name: Toshihiro ITO

March 14, 2005

Date

Akira Yamauchi
Typed Name: Akira YAMAUCHI

This assignment may be signed before a U.S. Notary Public or before at least two witnesses who also sign here:

March 14, 2005

Date

Jiro Tsukamoto
Typed Name: Jiro TSUKAMOTO

March 14, 2005

Date

H. Arai
Typed Name: Hiroshi ARAI