



02-07-2003



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FORM PTO-1596
1-31-92

REC

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

Docket No.: 57454-620

To the Honorable Commissioner for Patents and Trademarks: Please record the attached original documents or copy thereto:

1. Name of Conveying Party(ies): 2-4-03
Mahito SAWADA, Hiroshi TOBIMATSU, Kouji ODA,
Yuuki KAMIURA, Kouji SHIBATA and Hiroyuki KAWATA

2. Name and address of receiving party(ies):
Name: MITSUBISHI DENKI KABUSHIKI KAISHA
Address: 2-3, Marunouchi, 2-Chome
Chiyoda-ku
Tokyo 100-8310, JAPAN

Additional name(s) of conveying party(ies) attached? Yes

3. Nature of Conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other Resubmission of Assignment Transmittal, which
includes Second Assignee

Name: RYODEN SEMICONDUCTOR SYSTEM
ENGINEERING CORPORATION
Address: 4-1, Mizuhara, Itami-shi,
HYOGO 664-0005 JAPAN

Execution Date: May 24, 2002

Additional name(s) & address(es) attached? Yes

4. Application number(s) or patent number(s):
If the document is being filed together with a new application, the execution date of the application is:

A. Patent Application No(s).
10/170,579 filed June 14, 2002

B. Patent No(s).

Additional numbers attached? Yes

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

Name: MCDERMOTT, WILL & EMERY
Internal Address:
Street Address: 600 13th Street, N.W.
City: Washington State: DC Zip: 20005

6. Total number of applications and patents involved: 1
7. Total fee (37 CFR 3.41) \$0.00
 Enclosed
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8. Deposit account number:
500417

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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.

Stephen A. Becker, 26,527

February 4, 2003

Name and Registration No. of Person Signing

Signature

Date

Total number of pages comprising cover sheet: 1

CMB No. 0851-0011 (exp. 4/94)



10-16-2002



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RECORDAT

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Patent and Trademark Office

Docket No.: 57454-620

PATENTS ONLY

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Yuuki KAMIURA, Kouji SHIBATA and Hiroyuki KAWATA
Additional name(s) of conveying party(ies) attached? Yes

2. Name and address of receiving party(ies):
Name: MITSUBISHI DENKI KABUSHIKI KAISHA
Address: 2-3, Marunouchi, 2-Chome 10-10-02
Chiyoda-ku
Tokyo 100-8310, JAPAN

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 Security Agreement Change of Name
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Execution Date: May 24, 2002

Name: RYODEN SEMICONDUCTOR SYSTEM
ENGINEERING CORPORATION
Address: 4-1, Mizuhara, Itami-shi,
HYOGO 664-0005 JAPAN
Additional name(s) & address(es) attached? Yes

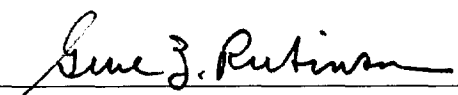
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City: Washington State: DC Zip: 20005

6. Total number of applications and patents involved: 1
7. Total fee (37 CFR 3.41) \$40.00
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 Authorized to be charged to deposit account
8. Deposit account number:
500417

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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.
Gene Z. Rubinson, 33,351  October 10, 2002

Name and Registration No. of Person Signing Signature Date
Total number of pages comprising cover sheet: 1

CMB No. 0851-0011 (exp. 4/94)

10/16/2002 LMJELLER 00000262 500417 10170579
01 FC:0021 40.00 CH

PATENT
REEL: 013722 FRAME: 0048

Docket No.:

ASSIGNMENT

In consideration of the premises and other good and valuable consideration in hand paid, the receipt and sufficiency of which is hereby acknowledged, the undersigned,

- (1) Mahito SAWADA (4) Yuuki KAMIURA (7) _____
- (2) Hiroshi TOBIMATSU (5) Kouji SHIBATA (8) _____
- (3) Kouji ODA (6) Hiroyuki KAWATA (9) _____

who have made a certain new and useful invention, hereby sell, assign and transfer unto

- (1) Mitsubishi Denki Kabushiki Kaisha of
2-3, Marunouchi 2-chome, Chiyoda-ku, TOKYO 100-8310 JAPAN
- (2) Ryoden Semiconductor System Engineering Corporation of
4-1, Mizuhara, Itami-shi, HYOGO 664-0005 JAPAN

its successors and assigns (hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100 in the invention entitled

SEMICONDUCTOR DEVICE AND MANUFACTURING METHOD THEREOF

(a) for which an application for United States Letters Patent was filed on _____, and identified by United States Serial No. _____; or

(b) for which an application for United States Letters Patent was executed on May 24, 2002

and the undersigned hereby authorize and request the United States Commissioner of Patents and Trademarks to issue any and all United States Letters Patent which may be granted therefor and any and all extensions, divisions, reissues, substitutes, renewals, continuations, or continuations-in-part thereof, and the right to all benefits under the International Convention for the Protection of Industrial Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE:

AND the undersigned hereby agree to transfer a like interest, and to render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and applications for patent based thereon, growing out of or related to the said invention; and to execute any papers by the said ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.

SIGNED on the dates indicated aside our signatures:

INVENTORS

DATE SIGNED

- 1) Mahito Sawada _____ May 24, 2002
Name: Mahito SAWADA
- 2) Hiroshi Tobimatsu _____ May 24, 2002
Name: Hiroshi TOBIMATSU
- 3) Kouji ODA _____ May 24, 2002
Name: Kouji ODA
- 4) Yuuki Kamiura _____ May 24, 2002
Name: Yuuki KAMIURA
- 5) Kouji Shibata _____ May 24, 2002
Name: Kouji SHIBATA
- 6) Hiroyuki KAWATA _____ May 24, 2002
Name: Hiroyuki KAWATA
- 7) _____
Name: _____
- 8) _____
Name: _____
- 9) _____
Name: _____

PATENT