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OMB No. 0651-0027 (exp. 5/31/2002)

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof

1. Name of conveying party(ies):

Tetsuro ASANO (06/16/2004), Mikito SAKAKIBARA (06/16/2004), Yoshibumi NAKAJIMA (06/16/2004), and Hidetoshi ISHIHARA (06/16/2004)

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

2. Name and address of receiving party(ies)

Name: SANYO ELECTRIC CO., LTD.

Internal Address: \_\_\_\_\_

Street Address: \_\_\_\_\_

2-5-5, Keihanhondori  
Moriguchi-shi, Osaka 570-8677  
JAPAN

City: \_\_\_\_\_

State: \_\_\_\_\_

Zip: \_\_\_\_\_

Additional name(s) & address(es) attached:  Yes  No

3. Nature of Conveyance:

Assignment  Merger  
 Security Agreement  Change of Name  
 Other \_\_\_\_\_

Execution Date: see Box 1, conveying parties

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

If this document is being filed together with a new application, the execution date of the new application is: \_\_\_\_\_

A. Patent Application No.(s):

10/470,594

B. Patent No.(s):

Additional numbers attached?  Yes  No

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

Name: Barry E. Bretschneider  
MORRISON & FOERSTER LLP

Internal Address: Atty. Dkt.: 492322014000

Street Address:  
1650 Tysons Blvd, Suite 300

City: McLean State: VA Zip: 22102

6. Total number of applications and patents involved: 1

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

Enclosed  
 Authorized to be charged to deposit account  
 Authorized to be charged to credit card  
(Form 2038 enclosed)

8. Deposit account number:

03-1952

(Attach duplicate copy of this page if paying by deposit account)

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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.

Barry E. Bretschneider - Reg. No. 28,055  
Name of Person Signing

Signature

June 24, 2004  
Date

Total number of pages including cover sheet, attachments, and documents: 3

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**MORRISON & FOERSTER LLP**

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:

**SANYO ELECTRIC CO., LTD.**  
2-5-5, Keihanondori  
Moriguchi-shi, Osaka 570-8677 JAPAN

(hereinafter 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 Patent which may be granted thereof, 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:

**SEMICONDUCTOR DEVICE**

Attorney Docket No.: 49232-20140.00

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.: 10/470,594

Filing Date: October 14, 2003

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, reexamination 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 which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property of similar agreements.

3. The undersigned agree(s) to perform all affirmative acts which 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 in the United States to issue any and all Letters Patent resulting from said application or any division or divisions or continuing applications thereof to the said ASSIGNEE.

5. The undersigned hereby grant(s) to the firm of Morrison & Foerster LLP 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 WHEREBY, executed by the undersigned on the date(s) opposite the undersigned name(s).

'04 Jun. 16

Date

浅野 哲郎

Typed Name: Tetsuro ASANO

'04 Jun. 16

Date

神原 幹人

Typed Name: Mikito SAKAKIBARA

'04 Jun. 16

Date

中島 好史

Typed Name: Yoshibumi NAKAJIMA

'04 Jun. 16

Date

石原 秀俊

Typed Name: Hidetoshi ISHIHARA