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U.S. DEPARTMENT OF COMMERCE

HEET

Patent and Trademark Office Docket No. 492322008400

To the Commissioner of Patents and Trademarks: Pleas	e record the attached original documents or copy thereof. us	
1. Name of conveying party(ies): 1. Koichi HIRATA 2. Osamu ISAKI 3. Tsutomu AONO 4. Toshikazu HIRAI 5. Tetsuro ASANO	2. Name and address of receiving party(ies): Name: SANYO ELECTRIC CO., LTD. Address: 2-5-5, Keihanhondori, 2-chome Moriguchi-shi, Osaka 570-8677 JAPAN	
 ☑ Individual(s) ☐ General Partnership ☐ Corporation-State ☐ Other 	Additional name(s) & address(es) attached? ☐ Yes ☒ No	
Additional name(s) of conveying party(ies) attached? □Yes ⊠No		
3. Nature of conveyance:		
 ☑ Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name ☐ Other: 		
Execution Date: <u>January 17, 2003</u>		
4. Application number(s) or patent number(s):		
If this document is being filed together with a new application, the e	execution date of the application is: February 6, 2003	
A. Patent Application No.(s)	B Patent No.(s)	
Additional numbers attached? ☐ Yes ☑ No	1635 7751	
Name and address of party to whom correspondence concerning	6. Total number of applications and patents involved: 1	
document should be mailed:	7. Total fee (37 C.F.R. § 3.41): \$40.00	
Barry E. Bretschneider	, 16th 166 (57 GM No. 3 GM). 4 1515	
Morrison & Foerster LLP 1650 Tysons Boulevard Suite 300	Authorized to be charged to deposit account, transmittal form is attached to this submission in duplicate or fee processing: Attorney Docket No. 492322008400	
McLean, Virginia 22102	8. Deposit account number: <u>03-1952</u>	
The Commissioner is hereby authorized to charge any fees under 37 C.F.R. § 1.21 that may be required by this paper, or to credit any overpayment to Deposit Account No. 03-1952.		
DO NOT USE THIS SPACE		
9. Statement and signature.		
<u> </u>	is true and correct and any attached copy is a true copy of the original $\frac{2}{603}$	
Name: Barry E. Bretschneider		
Registration No: 28,055 Signature	Date	
1/2003 ECOOPER 00000091 031952 10359251		
Total number of pages comprising cover sheet, attachments and document: 3		

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks

Box Assignments

Washington, D.C. 20231

va-23929

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, Keihanhondori, 2-chome 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.: 49232-20084.00

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.:	Filing Date:	
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- 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 abovenamed 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.

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PATENT REEL: 013747 FRAME: 0945

- 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).

703 Jan. 17	平田耕一
Date	Typed Name: Koichi HIRATA
<u>'03 Jan.17</u> Date	伊佐木 治 Typed Name: Osamu ISAKI
03 Jan. 17 Date	青野 勉 Typed Name: Tsutomu AONO
<u>'03 Jan . 17</u> Date	平井 利和 Typed Name: Toshikazu HIRAI
'03 Jam. 17	浅野恒郎
Date	Typed Name: Tetsuro ASANO

RECORDED: 02/06/2003