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Attorney Docket No.: 10417-046001  
Client's Ref. No.: F51-126730M/HV/



MRD  
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101519484  
**PATENTS ONLY**

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10/06/00  
09/684604  
U.S. PTO

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1. Name of conveying party(ies): Hiroyuki Shinogi, Ryoji Tokushige and Nobuyuki Takai Additional name(s) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		2. Name and address of receiving party(ies): SANYO ELECTRIC CO., LTD. 2-2-5, Keihanhondori, Moriguchi-shi, Osaka, Japan Additional names/addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other: Execution Date: 09/26/2000			
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: 09/26/2000 A. Patent Application No(s): B. Patent No(s): Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <p style="text-align: right; font-size: 1.2em;">09/684604</p>			
5. Name/address of party to whom correspondence concerning document should be mailed: CHRIS T. MIZUMOTO Fish & Richardson P.C. 45 Rockefeller Plaza, Suite 2800 New York, NY 10111		6. Total number of applications/patents involved: 1	
		7. Total fee (37 CFR §3.41): \$40 <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to charge Deposit Account.	
		8. Deposit Account No.: 06-1050 Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050.	
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Chris T. Mizumoto Reg. No. 42,899 Name of Person Signing		 Signature	October 6, 2000 Date
Total number of pages including coversheet, attachments and document: 4			

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October 6, 2000  
Date of Deposit

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Francisco Robles  
Typed Name of Person Signing Certificate

**PATENT**  
**REEL: 011227 FRAME: 0186**

Assignment  
譲渡

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配達の故に、文末に署名した者は、

(住所)

(以下「譲渡人」と呼ぶ)と、その承継人および譲受人、  
に対して、  
(発明の名称)

弁護士登録番号

という名称で知られ、以下に署名した者が以下に記した日  
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得られる特許状ならびにそれらの分割、再申請、継続およ  
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許状が譲受人、継承人、さらにその譲受人らまたは彼らの  
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執行後に追加されるものとする。

シリアル・ナンバー

登録年月日:

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

SANYO ELECTRIC CO., LTD.

Having the address:

2-5-5, Keihanhondori, Moriguchi-shi,  
Osaka, Japan

(hereinafter designated as the "ASSIGNEE"), its suc-  
cessors and assigns, the entire right, title and inter-  
est for the United States in the invention, and all  
applications for patent and any Letters Patent which  
may be granted thereof, including said application,  
and all United States Letters Patents which may be  
granted thereof, and all divisions, reissues, continua-  
tions, 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 enjoyed by assignor(s) if this assignment  
had not been made, the application being known by  
the title:

SEMICONDUCTOR DEVICE AND  
METHOD OF MANUFACTURING THE SAME

Attorney Docket no.:

for the 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 applica-  
tion, the following identifying information may be  
added after execution:

Serial No.

Filing Date:

## Assignment

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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 above-nmaed 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 secure the title thereto to the ASSIGNEE.

2. The undersigned hereby 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 hereby 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) teh Commisioner of Patents in the United States to issue any and all Letters Patents resulting from the said application or any division or divisions or continuing application thereof to the ASSIGNEE.

5. The undersigned hereby grant(s) to the firm of Fish & Richardson P.C. the power to insert on this agreement 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.

Assignment

譲渡

以上を証拠のうへで、下記の者が下記の氏名に立んで記された日に各自、署名して本書を有効させるものである。

IN WITNESS THEREBY, executed by the undersigned on the date(s) opposite the undersigned Name(s)

\_\_\_\_\_  
年月日 氏名(横書き):

September  
26, 2000  
Date

Hiroyuki Shinogi  
Typed Name HIROYUKI SHINOGI

\_\_\_\_\_  
年月日 氏名(横書き):

September  
26, 2000  
Date

Ryoji Tokushige  
Typed Name RYOJI TOKUSHIGE

\_\_\_\_\_  
年月日 氏名(横書き):

September  
26, 2000  
Date

Nobuyuki Takai  
Typed Name NOBUYUKI TAKAI

\_\_\_\_\_  
年月日 氏名(横書き):

\_\_\_\_\_  
Date

\_\_\_\_\_  
Typed Name

\_\_\_\_\_  
年月日 氏名(横書き):

\_\_\_\_\_  
Date

\_\_\_\_\_  
Typed Name

\_\_\_\_\_  
年月日 氏名(横書き):

\_\_\_\_\_  
Date

\_\_\_\_\_  
Typed Name

以上を証拠のうへで、下記の者が下記の氏名に立んで記された日に各自、署名して本書を有効させるものである。

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

\_\_\_\_\_  
年月日 氏名(横書き):

\_\_\_\_\_  
Date

\_\_\_\_\_  
Typed Name

\_\_\_\_\_  
年月日 氏名(横書き):

\_\_\_\_\_  
Date

\_\_\_\_\_  
Typed Name