

PATENT ASSIGNMENT

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Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Yoshihiro NIWA</td><td>04/22/2010</td></tr><tr><td>Kazumasa TAKAI</td><td>04/22/2010</td></tr><tr><td>Toshiyuki SHUTOKU</td><td>04/22/2010</td></tr><tr><td>Takeshi NAGANUMA</td><td>04/22/2010</td></tr><tr><td>Tomofumi WATANABE</td><td>04/22/2010</td></tr></tbody></table>		Name	Execution Date	Yoshihiro NIWA	04/22/2010	Kazumasa TAKAI	04/22/2010	Toshiyuki SHUTOKU	04/22/2010	Takeshi NAGANUMA	04/22/2010	Tomofumi WATANABE	04/22/2010
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RECEIVING PARTY DATA													
<table border="1"><tr><td>Name:</td><td>SANYO ELECTRIC CO., LTD.</td></tr><tr><td>Street Address:</td><td>5-5, Keihan-Hondori 2-chome, Moriguchi-shi</td></tr><tr><td>City:</td><td>Osaka</td></tr><tr><td>State/Country:</td><td>JAPAN</td></tr></table>		Name:	SANYO ELECTRIC CO., LTD.	Street Address:	5-5, Keihan-Hondori 2-chome, Moriguchi-shi	City:	Osaka	State/Country:	JAPAN				
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<table border="1"><tr><td>Name:</td><td>SANYO SEMICONDUCTOR CO., LTD.</td></tr><tr><td>Street Address:</td><td>1-1, Sakata 1-chome, Oizumi-Machi, Ora-Gun</td></tr><tr><td>City:</td><td>Gunma</td></tr><tr><td>State/Country:</td><td>JAPAN</td></tr></table>		Name:	SANYO SEMICONDUCTOR CO., LTD.	Street Address:	1-1, Sakata 1-chome, Oizumi-Machi, Ora-Gun	City:	Gunma	State/Country:	JAPAN				
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Street Address:	1-1, Sakata 1-chome, Oizumi-Machi, Ora-Gun												
City:	Gunma												
State/Country:	JAPAN												
PROPERTY NUMBERS Total: 1													
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>12772445</td></tr></tbody></table>		Property Type	Number	Application Number:	12772445								
Property Type	Number												
Application Number:	12772445												
CORRESPONDENCE DATA													
Fax Number: (202)756-8087													
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
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CH \$40.00 12772445

501164778

PATENT
REEL: 024324 FRAME: 0380

ATTORNEY DOCKET NUMBER:	086120-0012
NAME OF SUBMITTER:	Stephen A. Becker, 26,527
Total Attachments: 2 source=ASSIGNMENT_086120-0012#page1.tif source=ASSIGNMENT_086120-0012#page2.tif	

RECORDATION FORM COVER SHEET

Docket No.: 086120-0012

PATENTS ONLY

To the Director of the U. S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of Conveying Party(ies)
Yoshihiro NIWA, Kazumasa TAKAI, Toshiyuki SHUTOKU ,
Takeshi NAGANUMA, Tomofumi WATANABE

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

3. Nature of Conveyance/Execution Date(s)

Execution Date(s): April 22, 2010

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Joint Research Agreement
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other

2. Name and address of receiving party(ies)

Name (1): **SANYO ELECTRIC CO., LTD.**

Address (2): 5-5, Keihan-Hondori 2-chome, Moriguchi-shi,
 Osaka, Japan

Name (2): **SANYO Semiconductor Co., Ltd.**

Address (2): 1-1, Sakata 1-chome, Oizumi-Machi,
 Ora-Gun, Gunma, Japan

Additional name(s) & address(es) attached? ☐ Yes ☐ No

4. Application or patent number(s):

A. Patent Application No(s).

☒ This document is being filed together with a new application.

B. Patent No(s).

Additional numbers attached? ☐ Yes ☐ No

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

Name: **MCDERMOTT WILL & EMERY LLP**

Internal Address:

Street Address: **600 13th Street, N.W.**

City: **Washington,** State: **DC** Zip: **20005-3096**
D.C.

Phone Number: **202.756.8000**

Fax Number: **202.756.8087**

Email Address:

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00

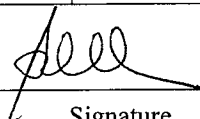
- ☐ Authorized to be charged by credit card
☒ Authorized to be charged to deposit account
☐ Enclosed
☐ None required (government interest not affecting title)

8. Payment Information:

- a. Credit Card Last 4 Numbers _____
 Expiration Date _____
 b. Deposit Account Number **500417**
 Authorized User Name _____

9. Signature.

Stephen A. Becker, 26,527



May 3, 2010

Name and Registration No. of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments and documents: **2**

(SAB)

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) <u>Yoshihiro NIWA</u> | (4) <u>Takeshi NAGANUMA</u> |
| (2) <u>Kazumasa TAKAI</u> | (5) <u>Tomofumi WATANABE</u> |
| (3) <u>Toshiyuki SHUTOKU</u> | (6) _____ |

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

SANYO ELECTRIC CO., LTD., having a place of business at 5-5, Keihan-Hondori 2-chome,
Moriguchi-shi, Osaka, Japan

and

SANYO Semiconductor Co., Ltd., having a place of business at 1-1, Sakata 1-chome,
Oizumi-Machi, Ora-Gun, Gunma, 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

DRIVER CIRCUIT

(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
April 22, 2010,

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) <u><i>Yoshihiro Niwa</i></u> | <u>April 22, 2010</u> |
| Name: Yoshihiro NIWA | |
| 2) <u><i>Kazumasa Takai</i></u> | <u>April 22, 2010</u> |
| Name: Kazumasa TAKAI | |
| 3) <u><i>Toshiyuki Shutoku</i></u> | <u>April 22, 2010</u> |
| Name: Toshiyuki SHUTOKU | |
| 4) <u><i>Takeshi Naganuma</i></u> | <u>April 22, 2010</u> |
| Name: Takeshi NAGANUMA | |
| 5) <u><i>Tomofumi Watanabe</i></u> | <u>April 22, 2010</u> |
| Name: Tomofumi WATANABE | |

PATENT

RECORDED: 05/03/2010

REEL: 024324 FRAME: 0383