

## PATENT ASSIGNMENT

Electronic Version v1.1  
 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>Takashi SHIBASAKI</td> <td>05/22/2013</td> </tr> <tr> <td>Hidefumi SAITO</td> <td>05/20/2013</td> </tr> <tr> <td>Takahisa MAKINO</td> <td>05/22/2013</td> </tr> <tr> <td>Masanori SHIMIZU</td> <td>05/22/2013</td> </tr> <tr> <td>Daisuke SASAKI</td> <td>05/22/2013</td> </tr> </tbody> </table> |                                  | Name          | Execution Date | Takashi SHIBASAKI   | 05/22/2013 | Hidefumi SAITO | 05/20/2013 | Takahisa MAKINO | 05/22/2013 | Masanori SHIMIZU | 05/22/2013 | Daisuke SASAKI | 05/22/2013 |
| Name  | Execution Date                   |               |                |                     |            |                |            |                 |            |                  |            |                |            |
| Takashi SHIBASAKI   | 05/22/2013                       |               |                |                     |            |                |            |                 |            |                  |            |                |            |
| Hidefumi SAITO  | 05/20/2013                       |               |                |                     |            |                |            |                 |            |                  |            |                |            |
| Takahisa MAKINO   | 05/22/2013                       |               |                |                     |            |                |            |                 |            |                  |            |                |            |
| Masanori SHIMIZU  | 05/22/2013                       |               |                |                     |            |                |            |                 |            |                  |            |                |            |
| Daisuke SASAKI  | 05/22/2013                       |               |                |                     |            |                |            |                 |            |                  |            |                |            |
| RECEIVING PARTY DATA  |                                  |               |                |                     |            |                |            |                 |            |                  |            |                |            |
| Name:   | ON Semiconductor Trading, Ltd.   |               |                |                     |            |                |            |                 |            |                  |            |                |            |
| Street Address:   | C/o Codan Services Limited       |               |                |                     |            |                |            |                 |            |                  |            |                |            |
| Internal Address:   | Clarendon House, 2 Church Street |               |                |                     |            |                |            |                 |            |                  |            |                |            |
| City:   | Hamilton                         |               |                |                     |            |                |            |                 |            |                  |            |                |            |
| State/Country:  | BERMUDA                          |               |                |                     |            |                |            |                 |            |                  |            |                |            |
| Postal Code:  | HM 11                            |               |                |                     |            |                |            |                 |            |                  |            |                |            |
| 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>13878724</td> </tr> </tbody> </table>   |                                  | Property Type | Number         | Application Number: | 13878724   |                |            |                 |            |                  |            |                |            |
| Property Type   | Number                           |               |                |                     |            |                |            |                 |            |                  |            |                |            |
| Application Number:   | 13878724                         |               |                |                     |            |                |            |                 |            |                  |            |                |            |
| CORRESPONDENCE DATA   |                                  |               |                |                     |            |                |            |                 |            |                  |            |                |            |
| Fax Number:   | 7037607777                       |               |                |                     |            |                |            |                 |            |                  |            |                |            |
| <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>  |                                  |               |                |                     |            |                |            |                 |            |                  |            |                |            |
| Phone:  | 703-760-7751                     |               |                |                     |            |                |            |                 |            |                  |            |                |            |
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| Correspondent Name:   | Takamitsu Fujii                  |               |                |                     |            |                |            |                 |            |                  |            |                |            |
| Address Line 1:   | c/o Morrison & Foerster LLP      |               |                |                     |            |                |            |                 |            |                  |            |                |            |
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| ATTORNEY DOCKET NUMBER:   | 492322047600                     |               |                |                     |            |                |            |                 |            |                  |            |                |            |

CH \$40.00 13878724

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|--|-------------------|
| NAME OF SUBMITTER:   | Takamitsu Fujiu   |
| Signature:   | /Takamitsu Fujiu/ |
| Date:  | 06/05/2013        |
| Total Attachments: 2<br>source=492322047600#page1.tif<br>source=492322047600#page2.tif |                   |

## ASSIGNMENT

This assignment is by:

1. Takashi SHIBASAKI  
c/o SANYO Semiconductor Co., Ltd.  
1-1, Sakata 1-chome, Oizumi-machi, Ora-gun, Gunma 3700596 Japan
2. Hidefumi SAITO  
1958-1 Toyoshiro-cho, Isesaki-City, Gunma, Japan
3. Takahisa MAKINO  
1-14-17 Tsutsumi-cho, Kiryu-City, Gunma, Japan
4. Masanori SHIMIZU  
c/o SANYO Semiconductor Co., Ltd.  
1-1, Sakata 1-chome, Oizumi-machi, Ora-gun, Gunma 3700596 Japan
5. Daisuke SASAKI  
c/o SANYO Semiconductor Co., Ltd.  
1-1, Sakata 1-chome, Oizumi-machi, Ora-gun, Gunma 3700596 Japan

(referred to in this Assignment as "Assignors"), who reside at or have a mailing address as listed above.

This Assignment is to:

Assignee: ON Semiconductor Trading, Ltd.  
Address: c/o Codan Services Limited, Clarendon House, 2 Church Street  
Hamilton HM 11, Bermuda

(referred to in this Assignment as "Assignee"), who desires to acquire the entire right, title and interest in said inventions and said application for letters patent of the United States, and in any United States or foreign, letters patent or patents, to be obtained therefor and thereon.

Assignors have invented certain new and useful inventions in:

### CIRCUIT DEVICE

for which Assignors have filed an application for patent in the United States of America concurrently herewith. Where this Assignment is not filed concurrently with the application, the following identifying information may be added after execution:

Serial No.: 13/878,724

Filing Date: September 15, 2011

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged,

1. Assignors hereby sell, assign, transfer and set over, to Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions, application for letters patent, and any and all letters patent or patents in the United States of America and all foreign countries which may be granted therefor and thereon, and in and to any and all provisionals, divisions, continuations, continuations-in-part and substitutions of said application, or reissues, re-examinations or extensions of said letters patent or patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee (including any right to institute actions and to recover for past, present and future infringement), for its own use and the use of its successors, legal representatives and assigns, to the full end of the term or terms for which letters patent or patents may be granted, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and assignment not been made.

2. Assignors represent, warrant and covenant that, at the time of execution and delivery of this agreement, Assignors are the sole and lawful owners of the entire right, title and interest in and to said inventions and said application for letters patent, and that the same are unencumbered and that

Assignors have good and full right and lawful authority to sell and convey the same in the manner set forth in this agreement.

3. Assignors shall promptly sign and execute all papers and documents, take all lawful oaths, and do all acts necessary, required or useful for the procurement, maintenance, enforcement, defense or otherwise to secure title thereto to the Assignee, at the sole cost and expense of Assignee, its successors, legal representatives and assigns, in each case including, without limitation, arising from or relating to (a) said inventions, or said application for letters patent; (b) letters patent for said inventions in any country, including any reissue, re-examination or extension of or interference proceedings, or (c) any provisional, division, continuation, continuation-in-part, or substitutions of any application for letters patent or any reissues, re-examinations, extensions or interference proceedings involving any letters patent, to be obtained thereon. To be clear, for purposes of this paragraph, "desirable" shall include, without limitation, any act necessary or useful in connection with United States laws and/or international conventions.

4. Assignors hereby authorize and request the Commissioner of Patents in the United States to issue the above mentioned letters patents of the United States to Assignee as the assignee of said inventions and the letters patent to be issued thereon for the sole use of Assignee, its successors, legal representatives and assigns.

5. I hereby grant Assignee's attorneys, all 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, including the power to insert on this assignment the application number and filing date of said application when known."

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date: 22/May/2013 Signature: Takashi Shibasaki  
Takashi SHIBASAKI

Date: 20/May/2013 Signature: Hidefumi Saito  
Hidefumi SAITO

Date: 22/May/2013 Signature: 伊勢野 高久  
Takahisa MAKINO

Date: 22/May/2013 Signature: Masamori Shimizu  
Masamori SHIMIZU

Date: 22/May/2013 Signature: Daisuke SASAKI  
Daisuke SASAKI