

# PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

| SUBMISSION TYPE:                                                                                                                                                                                                                                                                                                                                                           | NEW ASSIGNMENT   |               |                  |                     |                |                 |                 |                |            |              |          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|------------------|---------------------|----------------|-----------------|-----------------|----------------|------------|--------------|----------|
| NATURE OF CONVEYANCE:                                                                                                                                                                                                                                                                                                                                                      | ASSIGNMENT       |               |                  |                     |                |                 |                 |                |            |              |          |
| <b>CONVEYING PARTY DATA</b>                                                                                                                                                                                                                                                                                                                                                |                  |               |                  |                     |                |                 |                 |                |            |              |          |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Hiroyuki SATO</td> <td>01/12/2011</td> </tr> <tr> <td>Tomohiko MURATA</td> <td>01/12/2011</td> </tr> <tr> <td>Fusaji NAGAYA</td> <td>01/12/2011</td> </tr> </tbody> </table> |                  | Name          | Execution Date   | Hiroyuki SATO       | 01/12/2011     | Tomohiko MURATA | 01/12/2011      | Fusaji NAGAYA  | 01/12/2011 |              |          |
| Name                                                                                                                                                                                                                                                                                                                                                                       | Execution Date   |               |                  |                     |                |                 |                 |                |            |              |          |
| Hiroyuki SATO                                                                                                                                                                                                                                                                                                                                                              | 01/12/2011       |               |                  |                     |                |                 |                 |                |            |              |          |
| Tomohiko MURATA                                                                                                                                                                                                                                                                                                                                                            | 01/12/2011       |               |                  |                     |                |                 |                 |                |            |              |          |
| Fusaji NAGAYA                                                                                                                                                                                                                                                                                                                                                              | 01/12/2011       |               |                  |                     |                |                 |                 |                |            |              |          |
| <b>RECEIVING PARTY DATA</b>                                                                                                                                                                                                                                                                                                                                                |                  |               |                  |                     |                |                 |                 |                |            |              |          |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>IBIDEN CO., LTD.</td> </tr> <tr> <td>Street Address:</td> <td>2-1, Kanda-cho</td> </tr> <tr> <td>City:</td> <td>Ogaki-shi, Gifu</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>503-8604</td> </tr> </table>    |                  | Name:         | IBIDEN CO., LTD. | Street Address:     | 2-1, Kanda-cho | City:           | Ogaki-shi, Gifu | State/Country: | JAPAN      | Postal Code: | 503-8604 |
| Name:                                                                                                                                                                                                                                                                                                                                                                      | IBIDEN CO., LTD. |               |                  |                     |                |                 |                 |                |            |              |          |
| Street Address:                                                                                                                                                                                                                                                                                                                                                            | 2-1, Kanda-cho   |               |                  |                     |                |                 |                 |                |            |              |          |
| City:                                                                                                                                                                                                                                                                                                                                                                      | Ogaki-shi, Gifu  |               |                  |                     |                |                 |                 |                |            |              |          |
| State/Country:                                                                                                                                                                                                                                                                                                                                                             | JAPAN            |               |                  |                     |                |                 |                 |                |            |              |          |
| Postal Code:                                                                                                                                                                                                                                                                                                                                                               | 503-8604         |               |                  |                     |                |                 |                 |                |            |              |          |
| <b>PROPERTY NUMBERS Total: 1</b>                                                                                                                                                                                                                                                                                                                                           |                  |               |                  |                     |                |                 |                 |                |            |              |          |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Property Type</th> <th style="width: 70%;">Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12954052</td> </tr> </tbody> </table>                                                                                                          |                  | Property Type | Number           | Application Number: | 12954052       |                 |                 |                |            |              |          |
| Property Type                                                                                                                                                                                                                                                                                                                                                              | Number           |               |                  |                     |                |                 |                 |                |            |              |          |
| Application Number:                                                                                                                                                                                                                                                                                                                                                        | 12954052         |               |                  |                     |                |                 |                 |                |            |              |          |
| <b>CORRESPONDENCE DATA</b>                                                                                                                                                                                                                                                                                                                                                 |                  |               |                  |                     |                |                 |                 |                |            |              |          |
| <p>Fax Number: (703)413-2220<br/> <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: (703) 413-3000</p> <p>Email: tclemons@oblon.com</p> <p>Correspondent Name: Oblon, Spivak, et al.</p> <p>Address Line 1: 1940 Duke Street</p> <p>Address Line 4: Alexandria, VIRGINIA 22314</p>                                        |                  |               |                  |                     |                |                 |                 |                |            |              |          |
| ATTORNEY DOCKET NUMBER:                                                                                                                                                                                                                                                                                                                                                    | 365676US53       |               |                  |                     |                |                 |                 |                |            |              |          |
| NAME OF SUBMITTER:                                                                                                                                                                                                                                                                                                                                                         | Toben R. Clemons |               |                  |                     |                |                 |                 |                |            |              |          |
| <p>Total Attachments: 2</p> <p>source=365676USasn#page1.tif</p> <p>source=365676USasn#page2.tif</p>                                                                                                                                                                                                                                                                        |                  |               |                  |                     |                |                 |                 |                |            |              |          |

OP \$40.00 12954052

**PATENT**

501425265

REEL: 025738 FRAME: 0245

365676US53

## Assignment of Application

INSERT NAMES  
AND RESIDENCE  
ADDRESS OF  
THE INVENTORS:

WHEREAS, I (WE) Hiroyuki SATO of Ogaki-shi, Gifu, Japan;

Tomohiko MURATA of Ogaki-shi, Gifu, Japan; and

Fusaji NAGAYA of Ogaki-shi, Gifu, Japan

\_\_\_\_\_, respectively,

INSERT TITLE OF  
INVENTION:

have invented certain new and useful improvements in: PRINTED WIRING BOARD AND METHOD FOR  
MANUFACTURING PRINTED WIRING BOARD

(Application No. 12/954,052, filed November 24, 2010), and

WHEREAS, IBIDEN CO., LTD.

INSERT NAME  
AND ADDRESS OF  
COMPANY OR  
OTHER ASSIGNEE

(hereinafter referred to as "ASSIGNEE") having a place of business at: 2-1, Kanda-cho, Ogaki-shi, Gifu 503-8604, Japan is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries (including the right to claim priority under the terms of the International Convention and other relevant International Treaties and Arrangements from the aforesaid application(s)) and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, 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 held by me (us) had this Assignment and sale not been made.

07/09

**PATENT**  
**REEL: 025738 FRAME: 0246**

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his) representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letter Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of Oblon, Spivak, McClelland, Maier & Neustadt, L.L.P. of 1940 Duke Street, Alexandria, Virginia 22314 the power to insert on this assignment any further identification, including the application number and filing date, 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.

Date: 2011-1-12

Hiroyuki Sato  
(Signature of Inventor) Hiroyuki SATO

Date: 2011-1-12

Tomohiko Murata  
(Signature of Inventor) Tomohiko MURATA

Date: 2011-1-12

Fusaji Nagaya  
(Signature of Inventor) Fusaji NAGAYA

Date: \_\_\_\_\_

\_\_\_\_\_  
(Signature of Inventor)

Date: \_\_\_\_\_

\_\_\_\_\_  
(Signature of Inventor)

Date: \_\_\_\_\_

\_\_\_\_\_  
(Signature of Inventor)

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, L.L.P.  
ATTORNEYS AT LAW  
1940 DUKE STREET  
ALEXANDRIA, VIRGINIA 22314