

# PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

| <b>SUBMISSION TYPE:</b>   | CORRECTIVE ASSIGNMENT  |               |   |                     |                           |                   |           |       |        |                |            |              |       |
|---|--|---------------|---|---------------------|---------------------------|-------------------|-----------|-------|--------|----------------|------------|--------------|-------|
| <b>NATURE OF CONVEYANCE:</b>  | Corrective Assignment to correct the name and address of Assignee previously recorded on Reel 022147 Frame 0799. Assignor(s) hereby confirms the change from Kabushiki Kaisha Toshiba & Toshiba Tec Kabushiki Kaisha to Toshiba America Electronic Components. |               |   |                     |                           |                   |           |       |        |                |            |              |       |
| <b>CONVEYING PARTY DATA</b>   |  |               |   |                     |                           |                   |           |       |        |                |            |              |       |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> <tr> <td>Hsi-Heng Sean YANG</td> <td>01/05/2009</td> </tr> </table>   |  | Name          | Execution Date                              | Hsi-Heng Sean YANG  | 01/05/2009                |                   |           |       |        |                |            |              |       |
| Name  | Execution Date   |               |   |                     |                           |                   |           |       |        |                |            |              |       |
| Hsi-Heng Sean YANG  | 01/05/2009   |               |   |                     |                           |                   |           |       |        |                |            |              |       |
| <b>RECEIVING PARTY DATA</b>   |  |               |   |                     |                           |                   |           |       |        |                |            |              |       |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>Toshiba America Electronic Components, Inc.</td> </tr> <tr> <td>Street Address:</td> <td>19900 MacArthur Boulevard</td> </tr> <tr> <td>Internal Address:</td> <td>Suite 400</td> </tr> <tr> <td>City:</td> <td>Irvine</td> </tr> <tr> <td>State/Country:</td> <td>CALIFORNIA</td> </tr> <tr> <td>Postal Code:</td> <td>92612</td> </tr> </table> |  | Name:         | Toshiba America Electronic Components, Inc. | Street Address:     | 19900 MacArthur Boulevard | Internal Address: | Suite 400 | City: | Irvine | State/Country: | CALIFORNIA | Postal Code: | 92612 |
| Name:   | Toshiba America Electronic Components, Inc.  |               |   |                     |                           |                   |           |       |        |                |            |              |       |
| Street Address:   | 19900 MacArthur Boulevard  |               |   |                     |                           |                   |           |       |        |                |            |              |       |
| Internal Address:   | Suite 400  |               |   |                     |                           |                   |           |       |        |                |            |              |       |
| City:   | Irvine   |               |   |                     |                           |                   |           |       |        |                |            |              |       |
| State/Country:  | CALIFORNIA   |               |   |                     |                           |                   |           |       |        |                |            |              |       |
| Postal Code:  | 92612  |               |   |                     |                           |                   |           |       |        |                |            |              |       |
| <b>PROPERTY NUMBERS Total: 1</b>  |  |               |   |                     |                           |                   |           |       |        |                |            |              |       |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 30%;">Property Type</th> <th style="width: 70%;">Number</th> </tr> <tr> <td>Application Number:</td> <td>12269361</td> </tr> </table>   |  | Property Type | Number                                      | Application Number: | 12269361                  |                   |           |       |        |                |            |              |       |
| Property Type   | Number   |               |   |                     |                           |                   |           |       |        |                |            |              |       |
| Application Number:   | 12269361   |               |   |                     |                           |                   |           |       |        |                |            |              |       |
| <b>CORRESPONDENCE DATA</b>  |  |               |   |                     |                           |                   |           |       |        |                |            |              |       |
| <p>Fax Number: (216)592-5009</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 216-696-3340</p> <p>Email: patents@tuckerellis.com</p> <p>Correspondent Name: John X. Garred</p> <p>Address Line 1: 925 Euclid Avenue</p> <p>Address Line 2: 1150 Huntington Building</p> <p>Address Line 4: Cleveland, OHIO 44115</p>   |  |               |   |                     |                           |                   |           |       |        |                |            |              |       |
| <b>ATTORNEY DOCKET NUMBER:</b>  | 064272/000066  |               |   |                     |                           |                   |           |       |        |                |            |              |       |
| <b>NAME OF SUBMITTER:</b>   | Susan L. Mizer   |               |   |                     |                           |                   |           |       |        |                |            |              |       |

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**PATENT**  
**REEL: 023394 FRAME: 0078**

**Total Attachments: 9**

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## PATENT ASSIGNMENT

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01/23/2009  
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|--|------------------------------|
| SUBMISSION TYPE:   | NEW ASSIGNMENT               |
| NATURE OF CONVEYANCE:  | ASSIGNMENT                   |
| CONVEYING PARTY DATA   |                              |
| Name   | Execution Date               |
| Hsi-Heng Sean Yang   | 01/05/2009                   |
| RECEIVING PARTY DATA   |                              |
| Name:  | Kabushiki Kaisha Toshiba     |
| Street Address:  | 1-1-1, Shibaura              |
| Internal Address:  | Minato-ku                    |
| City:  | Tokyo                        |
| State/Country:   | JAPAN                        |
| Postal Code:   | 105-8001                     |
| Name:  | Toshiba Tec Kabushiki Kaisha |
| Street Address:  | 2-17-2, Higashigotanda       |
| Internal Address:  | Shinagawa-ku                 |
| City:  | Tokyo                        |
| State/Country:   | JAPAN                        |
| Postal Code:   | 141-8664                     |
| PROPERTY NUMBERS Total: 1  |                              |
| Property Type  | Number                       |
| Application Number:  | 12269361                     |
| CORRESPONDENCE DATA  |                              |
| Fax Number:  | (216)592-5009                |
| <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> |                              |
| Phone:   | 216-696-3340                 |
| Email:   | patents@tuckerellis.com      |
| Correspondent Name:  | John X. Garred               |
| Address Line 1:  | 925 Euclid Avenue            |
| Address Line 2:  | 1150 Huntington Building     |

OP \$40.00 12269361

|   |                |
|---|----------------|
| Address Line 4: Cleveland, OHIO 44115-1414  |                |
| ATTORNEY DOCKET NUMBER:   | 64272/00066    |
| NAME OF SUBMITTER:  | Susan L. Mizer |
| Total Attachments: 3<br>source=64272-00066_Assignment_AsEfiled_01232009#page1.tif<br>source=64272-00066_Assignment_AsEfiled_01232009#page2.tif<br>source=64272-00066_Assignment_AsEfiled_01232009#page3.tif |                |

ASSIGNMENT

In consideration of the payment by ASSIGNEE to ASSIGNOR(S) of the sum of Ten Dollars (\$10.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

ASSIGNOR:           Name:       Hsi-Heng Sean Yang  
  
                          Address:     605 Clauser Drive  
  Milpitas, CA 95035  
  
                          Citizenship:   USA

hereby sell, assign and transfer to:

ASSIGNEE:           Name:       ~~Kabushiki Kaisha Toshiba~~ *gr 10/20/09*  
  Toshiba America Electronic Components, Inc.  
  
                          Principal Place  
                          Of Business: ~~1-1-1, Shibaura~~           19900 MacArthur Boulevard  
  ~~Minato-ku, Tokyo 105-8001~~ Suite 400  
  ~~JAPAN~~                           Irvine, CA 92612  
  
                          Corporation  
                          of:         ~~Japan~~ California

~~and~~

~~ASSIGNEE:           Name:       Toshiba Tec Kabushiki Kaisha *gr 10/20/09*~~  
  
~~Principal Place~~  
~~Of Business: 2-17-2, Higashigotanda~~  
~~Shinagawa-ku, Tokyo, 141-8664~~  
~~JAPAN~~  
  
~~Corporation~~  
~~of:         Japan~~

and the successors, assigns and legal representatives of the ASSIGNEE the entire right, title and interest for the United States and its territorial possessions, and in all foreign countries, including all rights to claim priority in and to any and all improvements which are disclosed in the invention entitled:

**A SYSTEM AND METHOD FOR DISPLAYING AND NAVIGATING A GRAPHICAL  
TWO-DIMENSIONAL ARRAY OF A PLURALITY OF AVAILABLE CHANNELS**

and which is found in (37 C.F.R. § 3.21)

U.S. Provisional Patent Application Serial No. \_\_\_\_\_ filed on the \_\_\_\_\_ day of \_\_\_\_\_.

To comply with 37 C.F.R. § 3.21 for recordal of this assignment, we, as ASSIGNOR(S) signing below, hereby authorize and request our attorney to insert below the filing date and application number when they become known.

U.S. application No. 12/269,361, filed on November 12, 2008

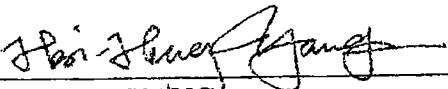
and any legal equivalent thereof in a foreign country, including the right to claim priority and, in and to, all Letters Patent to be obtained for such invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent, any reissue or re-examination thereof.

ASSIGNOR(S) hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

ASSIGNOR(S) further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR(S) and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

Signed at MILPITAS, CALIFORNIA on this  
(City) (State)

5<sup>th</sup> day of JANUARY, <sup>2009</sup>~~2008~~.  
(day)

  
Hsi-Heng Sean YANG

State of California )

County of Orange )

On \_\_\_\_\_ before me, \_\_\_\_\_, personally appeared Hsi-Heng Sean YANG, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her their signature(s) on the instrument the person(s) or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature \_\_\_\_\_

Place Notary Seal Above