

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>Deva N. Pattanayak</td><td>06/11/2008</td></tr><tr><td>Kyle Terrill</td><td>06/09/2008</td></tr><tr><td>Sharon Shi</td><td>06/12/2008</td></tr><tr><td>Misha Lee</td><td>06/05/2008</td></tr><tr><td>Yuming Bai</td><td>06/12/2008</td></tr><tr><td>Kam Lui</td><td>06/10/2008</td></tr><tr><td>Kuo-In Chen</td><td>06/09/2008</td></tr></tbody></table> | Name                                     | Execution Date | Deva N. Pattanayak  | 06/11/2008 | Kyle Terrill | 06/09/2008 | Sharon Shi | 06/12/2008 | Misha Lee | 06/05/2008 | Yuming Bai | 06/12/2008 | Kam Lui | 06/10/2008 | Kuo-In Chen | 06/09/2008 |  |
| Name  | Execution Date                           |                |                     |            |              |            |            |            |           |            |            |            |         |            |             |            |  |
| Deva N. Pattanayak  | 06/11/2008                               |                |                     |            |              |            |            |            |           |            |            |            |         |            |             |            |  |
| Kyle Terrill  | 06/09/2008                               |                |                     |            |              |            |            |            |           |            |            |            |         |            |             |            |  |
| Sharon Shi  | 06/12/2008                               |                |                     |            |              |            |            |            |           |            |            |            |         |            |             |            |  |
| Misha Lee   | 06/05/2008                               |                |                     |            |              |            |            |            |           |            |            |            |         |            |             |            |  |
| Yuming Bai  | 06/12/2008                               |                |                     |            |              |            |            |            |           |            |            |            |         |            |             |            |  |
| Kam Lui   | 06/10/2008                               |                |                     |            |              |            |            |            |           |            |            |            |         |            |             |            |  |
| Kuo-In Chen   | 06/09/2008                               |                |                     |            |              |            |            |            |           |            |            |            |         |            |             |            |  |
| RECEIVING PARTY DATA  |  |                |                     |            |              |            |            |            |           |            |            |            |         |            |             |            |  |
| Name:   | Vishay-Siliconix                         |                |                     |            |              |            |            |            |           |            |            |            |         |            |             |            |  |
| Street Address:   | 2201 Laurelwood Road                     |                |                     |            |              |            |            |            |           |            |            |            |         |            |             |            |  |
| City:   | Santa Clara                              |                |                     |            |              |            |            |            |           |            |            |            |         |            |             |            |  |
| State/Country:  | CALIFORNIA                               |                |                     |            |              |            |            |            |           |            |            |            |         |            |             |            |  |
| Postal Code:  | 95054                                    |                |                     |            |              |            |            |            |           |            |            |            |         |            |             |            |  |
| 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>12098950</td></tr></tbody></table>  | Property Type                            | Number         | Application Number: | 12098950   |              |            |            |            |           |            |            |            |         |            |             |            |  |
| Property Type   | Number                                   |                |                     |            |              |            |            |            |           |            |            |            |         |            |             |            |  |
| Application Number:   | 12098950                                 |                |                     |            |              |            |            |            |           |            |            |            |         |            |             |            |  |
| CORRESPONDENCE DATA   |  |                |                     |            |              |            |            |            |           |            |            |            |         |            |             |            |  |
| Fax Number:   | (408)938-9057                            |                |                     |            |              |            |            |            |           |            |            |            |         |            |             |            |  |
| <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>  |  |                |                     |            |              |            |            |            |           |            |            |            |         |            |             |            |  |
| Phone:  | 408-938-9060                             |                |                     |            |              |            |            |            |           |            |            |            |         |            |             |            |  |
| Email:  | officeaction@mhbpatents.com              |                |                     |            |              |            |            |            |           |            |            |            |         |            |             |            |  |
| Correspondent Name:   | VISHAY/SILICONIX C/O MURABITO, HAO & BAR |                |                     |            |              |            |            |            |           |            |            |            |         |            |             |            |  |
| Address Line 1:   | 2 N. MARKET STREET                       |                |                     |            |              |            |            |            |           |            |            |            |         |            |             |            |  |
| Address Line 2:   | THIRD FLOOR                              |                |                     |            |              |            |            |            |           |            |            |            |         |            |             |            |  |
| Address Line 4:   | SAN JOSE, CALIFORNIA 95113               |                |                     |            |              |            |            |            |           |            |            |            |         |            |             |            |  |
| ATTORNEY DOCKET NUMBER:   | VISH-8753                                |                |                     |            |              |            |            |            |           |            |            |            |         |            |             |            |  |

OP \$40.00 12098950

PATENT

500578304

REEL: 021157 FRAME: 0784

NAME OF SUBMITTER:

Anthony C. Murabito

**Total Attachments: 7**

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# Assignment to VISHAY-SILICONIX

In consideration of good and valuable consideration, receipt of which is hereby acknowledged, I/we  
Deva N. Pattanayak

do hereby sell, assign, and transfer unto Vishay-Siliconix (hereinafter called Vishay-Siliconix), a Delaware Corporation having its principal place of business at 2201 Laurelwood Road, Santa Clara, CA 95054, and its successors and assigns, the entire right, title, and interest for the United States and all foreign countries, in and to any and all improvements, including the right of priority in, to, and under, the application for the United States patent entitled:

**TRENCH METAL OXIDE SEMICONDUCTOR WITH RECESSED TRENCH MATERIAL AND REMOTE CONTACTS**

         filed herewith and the inventions set forth and described therein, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefor; or

  X   Serial No.: 12/098,950 filed on 04/07/2008 and the inventions set forth and described therein, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefor;

And for the above consideration, I/we agree promptly upon request of Vishay-Siliconix, its successors or assigns, to execute and deliver without further compensation any power of attorney, assignment, application, whether original, continuation, divisional or reissue, or other papers which may be necessary or desirable fully to secure to Vishay-Siliconix, its successors and assigns, the inventions described in said application and all patent rights therein, in the United States and in any country foreign thereto, and to cooperate and assist in the prosecution of interference proceedings involving said inventions and in the adjudication or reexamination of said Letters Patent provided the expenses which may be incurred by me/us in lending such cooperation and assistance are paid by Vishay-Siliconix.

I/we further covenant with Vishay-Siliconix, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned;

In witness whereof, I/we hereunto set my/our hand(s) and seal:

Inventor's Signature: *Deva N. Pattanayak* Date: 6/11/08

# Assignment to VISHAY-SILICONIX

In consideration of good and valuable consideration, receipt of which is hereby acknowledged, I/we  
Kyle Terrill

do hereby sell, assign, and transfer unto Vishay-Siliconix (hereinafter called Vishay-Siliconix), a Delaware Corporation having its principal place of business at 2201 Laurelwood Road, Santa Clara, CA 95054, and its successors and assigns, the entire right, title, and interest for the United States and all foreign countries, in and to any and all improvements, including the right of priority in, to, and under, the application for the United States patent entitled:

**TRENCH METAL OXIDE SEMICONDUCTOR WITH RECESSED TRENCH MATERIAL AND REMOTE CONTACTS**

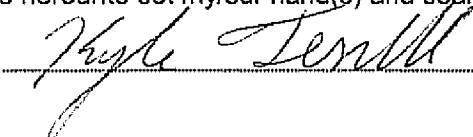
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  X   Serial No.: 12/098,950 filed on 04/07/2008 and the inventions set forth and described therein, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefor;

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In witness whereof, I/we hereunto set my/our hand(s) and seal:

Inventor's Signature:  Date: 6/9/08

## Assignment to VISHAY-SILICONIX

In consideration of good and valuable consideration, receipt of which is hereby acknowledged, I/we  
Sharon Shi

do hereby sell, assign, and transfer unto Vishay-Siliconix (hereinafter called Vishay-Siliconix), a Delaware Corporation having its principal place of business at 2201 Laurelwood Road, Santa Clara, CA 95054, and its successors and assigns, the entire right, title, and interest for the United States and all foreign countries, in and to any and all improvements, including the right of priority in, to, and under, the application for the United States patent entitled:

**TRENCH METAL OXIDE SEMICONDUCTOR WITH RECESSED TRENCH MATERIAL AND REMOTE CONTACTS**

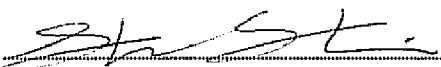
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  X   Serial No.: 12/098,950 filed on 04/07/2008 and the inventions set forth and described therein, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefor;

And for the above consideration, I/we agree promptly upon request of Vishay-Siliconix, its successors or assigns, to execute and deliver without further compensation any power of attorney, assignment, application, whether original, continuation, divisional or reissue, or other papers which may be necessary or desirable fully to secure to Vishay-Siliconix, its successors and assigns, the inventions described in said application and all patent rights therein, in the United States and in any country foreign thereto, and to cooperate and assist in the prosecution of interference proceedings involving said inventions and in the adjudication or reexamination of said Letters Patent provided the expenses which may be incurred by me/us in lending such cooperation and assistance are paid by Vishay-Siliconix.

I/we further covenant with Vishay-Siliconix, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned;

In witness whereof, I/we hereunto set my/our hand(s) and seal:

Inventor's Signature:  Date: 6/12/08

## Assignment to VISHAY-SILICONIX

In consideration of good and valuable consideration, receipt of which is hereby acknowledged, I/we  
Misha Lee

do hereby sell, assign, and transfer unto Vishay-Siliconix (hereinafter called Vishay-Siliconix), a Delaware Corporation having its principal place of business at 2201 Laurelwood Road, Santa Clara, CA 95054, and its successors and assigns, the entire right, title, and interest for the United States and all foreign countries, in and to any and all improvements, including the right of priority in, to, and under, the application for the United States patent entitled:

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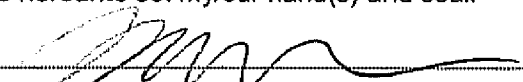
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In witness whereof, I/we hereunto set my/our hand(s) and seal:

Inventor's Signature:  Date: 6/5/2009

## Assignment to VISHAY-SILICONIX

In consideration of good and valuable consideration, receipt of which is hereby acknowledged, I/we  
Yuming Bai

do hereby sell, assign, and transfer unto Vishay-Siliconix (hereinafter called Vishay-Siliconix), a Delaware Corporation having its principal place of business at 2201 Laurelwood Road, Santa Clara, CA 95054, and its successors and assigns, the entire right, title, and interest for the United States and all foreign countries, in and to any and all improvements, including the right of priority in, to, and under, the application for the United States patent entitled:

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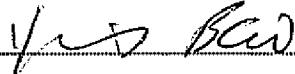
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I/we further covenant with Vishay-Siliconix, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned;

In witness whereof, I/we hereunto set my/our hand(s) and seal:

Inventor's Signature:  Date: 6/12/08

## Assignment to VISHAY-SILICONIX

In consideration of good and valuable consideration, receipt of which is hereby acknowledged, I/we  
Kam Lui

do hereby sell, assign, and transfer unto Vishay-Siliconix (hereinafter called Vishay-Siliconix), a Delaware Corporation having its principal place of business at 2201 Laurelwood Road, Santa Clara, CA 95054, and its successors and assigns, the entire right, title, and interest for the United States and all foreign countries, in and to any and all improvements, including the right of priority in, to, and under, the application for the United States patent entitled:

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In witness whereof, I/we hereunto set my/our hand(s) and seal:

Inventor's Signature: *Kam Hong Lui* Date: 6/16/08



## Assignment to VISHAY-SILICONIX

In consideration of good and valuable consideration, receipt of which is hereby acknowledged, I/we  
Kuo-In Chen

do hereby sell, assign, and transfer unto Vishay-Siliconix (hereinafter called Vishay-Siliconix), a Delaware Corporation having its principal place of business at 2201 Laurelwood Road, Santa Clara, CA 95054, and its successors and assigns, the entire right, title, and interest for the United States and all foreign countries, in and to any and all improvements, including the right of priority in, to, and under, the application for the United States patent entitled:

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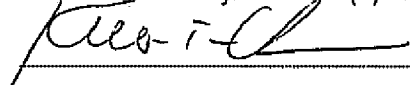
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In witness whereof, I/we hereunto set my/our hand(s) and seal:

Inventor's Signature:  Date: 6/9/08