

**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 Assignor: Blatchford, James Walter and Vickery III, Carl Albert; Address of Assignee: 7839 Churchill Way previously recorded on Reel 018594 Frame 0371. Assignor(s) hereby confirms the Assignor: Blatchford, James Walter, Mr. and Vickery, Carl Albert, III, Mr.; Address of Assignee: 7839 Churchill Way. |

**CONVEYING PARTY DATA**

| Name                    | Execution Date |
|-------------------------|----------------|
| James Walter Blatchford | 10/27/2006     |
| Carl Albert Vickery III | 11/29/2006     |

**RECEIVING PARTY DATA**

|                          |                                |
|--------------------------|--------------------------------|
| <b>Name:</b>             | Texas Instruments Incorporated |
| <b>Street Address:</b>   | 7839 Churchill Way             |
| <b>Internal Address:</b> | MS 3999                        |
| <b>City:</b>             | Dallas                         |
| <b>State/Country:</b>    | TEXAS                          |
| <b>Postal Code:</b>      | 75251                          |

**PROPERTY NUMBERS Total: 1**

| Property Type       | Number   |
|---------------------|----------|
| Application Number: | 11565215 |

**CORRESPONDENCE DATA**

Fax Number: (703)997-4905  
*Correspondence will be sent via US Mail when the fax attempt is unsuccessful.*  
 Phone: 703-917-0000  
 Email: sjerome@mh2law.com  
 Correspondent Name: Dr. Peter McLarty, Esq.  
 Address Line 1: 7839 Churchill Way  
 Address Line 2: MS 3999  
 Address Line 4: Dallas, TEXAS 75251

|                                |           |
|--------------------------------|-----------|
| <b>ATTORNEY DOCKET NUMBER:</b> | 0025.0031 |
|--------------------------------|-----------|

**OP \$40.00 11565215**

NAME OF SUBMITTER:

Sue Jerome

Total Attachments: 4

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| <b>PATENT ASSIGNMENT</b> |
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| 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>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Mr. James Walter Blatchford</td> <td>10/27/2006</td> </tr> <tr> <td>Mr. Carl Albert VICKERY, III</td> <td>11/29/2006</td> </tr> </tbody> </table> |                                | Name          | Execution Date | Mr. James Walter Blatchford | 10/27/2006 | Mr. Carl Albert VICKERY, III | 11/29/2006 |
| Name  | Execution Date                 |               |                |                             |            |                              |            |
| Mr. James Walter Blatchford   | 10/27/2006                     |               |                |                             |            |                              |            |
| Mr. Carl Albert VICKERY, III  | 11/29/2006                     |               |                |                             |            |                              |            |
| <b>RECEIVING PARTY DATA</b>   |                                |               |                |                             |            |                              |            |
| Name:   | Texas Instruments Incorporated |               |                |                             |            |                              |            |
| Street Address:   | 7839 Churchill Way             |               |                |                             |            |                              |            |
| Internal Address:   | MS 3999                        |               |                |                             |            |                              |            |
| City:   | Dallas                         |               |                |                             |            |                              |            |
| State/Country:  | TEXAS                          |               |                |                             |            |                              |            |
| Postal Code:  | 75251                          |               |                |                             |            |                              |            |
| <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>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>11565215</td> </tr> </tbody> </table>   |                                | Property Type | Number         | Application Number:         | 11565215   |                              |            |
| Property Type   | Number                         |               |                |                             |            |                              |            |
| Application Number:   | 11565215                       |               |                |                             |            |                              |            |
| <b>CORRESPONDENCE DATA</b>  |                                |               |                |                             |            |                              |            |
| Fax Number:   | (703)997-4905                  |               |                |                             |            |                              |            |
| <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>  |                                |               |                |                             |            |                              |            |
| Phone:  | 703-917-0000                   |               |                |                             |            |                              |            |
| Email:  | sjerome@mh2law.com             |               |                |                             |            |                              |            |
| Correspondent Name:   | Dr. Peter McLarty, Esq.        |               |                |                             |            |                              |            |
| Address Line 1:   | 7839 Churchill Way             |               |                |                             |            |                              |            |
| Address Line 2:   | MS 3999                        |               |                |                             |            |                              |            |
| Address Line 4:   | Dallas, TEXAS 75251            |               |                |                             |            |                              |            |
| ATTORNEY DOCKET NUMBER:   | 0025 0031                      |               |                |                             |            |                              |            |

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|--|--------------------|
| NAME OF SUBMITTER:   | Timothy M. Hsieh   |
| Signature:   | /Timothy M. Hsieh/ |
| Date:  | 12/07/2006         |
| Total Attachments: 2<br>source=00250031ExecutedAssignment#page1.tif<br>source=00250031ExecutedAssignment#page2.tif |                    |
| <b>RECEIPT INFORMATION</b>   |                    |
| EPAS ID:   | PAT197086          |
| Receipt Date:  | 12/07/2006         |
| Fee Amount:  | \$40               |

**ASSIGNMENT**

WHEREAS, I, the undersigned inventor (or one of the undersigned joint inventors), of residence as listed, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made, the said application having been executed on the date set forth below, and

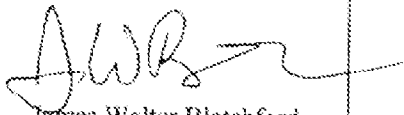
WHEREAS, TEXAS INSTRUMENTS INCORPORATED, a corporation organized and existing under the laws of the State of Delaware, having a place of business at 7839 Churchill Way, MS 3999, Dallas, Texas 75251, P.O. Box 655474, MS 3999, Dallas, Texas 75265, is desirous of acquiring my entire right, title and interest in and to the said invention, and to the said application and any Letters Patent that may issue thereon;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign to the said TEXAS INSTRUMENTS INCORPORATED, its successors and assigns, my entire right, title and interest in and to the said invention and in to the said application and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, and extensions thereof; and I hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patent resulting therefrom, insofar as my interest is concerned, in the said TEXAS INSTRUMENTS INCORPORATED, as assignee of my entire right, title and interest.

I also hereby sell and assign to TEXAS INSTRUMENTS INCORPORATED, its successors and assigns, my foreign rights to the invention disclosed in said application, in all countries of the world, including the right to file applications and obtain patents under the terms of the International Convention for the Protection of Industrial Property, and of the European Patent Convention, and further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights.

I hereby further agree that I will communicate to said TEXAS INSTRUMENTS INCORPORATED, or to its successor, assigns, and legal representatives, any facts known to me respecting said invention, and at the expense of said assignee company, testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, reissue and substitute applications, make all lawful oaths, and generally do everything possible to aid said TEXAS INSTRUMENTS INCORPORATED, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

IN WITNESS WHEREOF, I hereunto set my hand and seal this day and year:

| TITLE OF INVENTION             | MAXIMUM/VARIABLE SHIFTER WIDTHS TO ALLOW ALTERNATING PHASE-SHIFT IMPLEMENTATION FOR DENSE OR EXISTING LAYOUTS  |   |     |
|--------------------------------|--|---|-----|
|                                | (1)  | (2)   | (3) |
| SIGNATURE OF INVENTOR AND NAME | <br>James Walter Blatchford | Carl Albert Vickery III                     |     |
| DATE                           | 10/27/06   |   |     |
| RESIDENCE (City, State)        | 3103 Meadow Wood Dr.<br>Richmond, TX 75082   | 6122 Clear Creek Drive<br>Garland, TX 75044 |     |
| DATE APPLICATION EXECUTED      |  |   |     |

After recordation, please return Assignment to:

Dr. Peter McLarty, Esq  
Texas Instruments Incorporated  
P.O. Box 655474, M/S 3999  
Dallas, TX 75265

ATTORNEY DOCKET NO.

TI-60296

**ASSIGNMENT**

WHEREAS, I, the undersigned inventor (or one of the undersigned joint inventors), of residence as listed, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made, the said application having been executed on the date set forth below; and

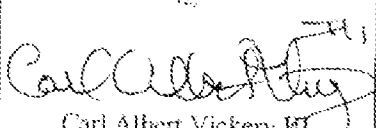
WHEREAS, TEXAS INSTRUMENTS INCORPORATED, a corporation organized and existing under the laws of the State of Delaware, having a place of business at 7839 Churchill Way, MS 3999, Dallas, Texas 75251, P.O. Box 655474, MS 3999, Dallas, Texas 75265, is desirous of acquiring my entire right, title and interest in and to the said invention, and to the said application and any Letters Patent that may issue thereon;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign to the said TEXAS INSTRUMENTS INCORPORATED, its successors and assigns, my entire right, title and interest in and to the said invention and in to the said application and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, and extensions thereof; and I hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patent resulting therefrom, insofar as my interest is concerned, to the said TEXAS INSTRUMENTS INCORPORATED, as assignee of my entire right, title and interest.

I also hereby sell and assign to TEXAS INSTRUMENTS INCORPORATED, its successors and assigns, my foreign rights to the invention disclosed in said application, in all countries of the world, including the right to file applications and obtain patents under the terms of the International Convention for the Protection of Industrial Property, and of the European Patent Convention, and further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights.

I hereby further agree that I will communicate to said TEXAS INSTRUMENTS INCORPORATED, or to its successors, assigns, and legal representatives, any facts known to me respecting said invention, and at the expense of said assignee company, testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, reissue and substitute applications, make all lawful oaths, and generally do everything possible to aid said TEXAS INSTRUMENTS INCORPORATED, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

IN WITNESS WHEREOF, I hereunto set my hand and seal this day and year,

| TITLE OF INVENTION             | MAXIMUM/VARIABLE SHIFTER WIDTHS TO ALLOW ALTERNATING PHASE-SHIFT IMPLEMENTATION FOR DENSE OR EXISTING LAYOUTS |   |     |
|--------------------------------|---|---|-----|
| SIGNATURE OF INVENTOR AND NAME | (1)   | (2)   | (3) |
|                                | James Walter Blatchford   | <br>Carl Albert Vickery III |     |
| DATE                           |   | 11-29-2006  |     |
| RESIDENCE (City, State)        | 3103 Meadow Wood Dr.<br>Richmond, TX 75082  | 6122 Clear Creek Drive<br>Garland, TX 75044   |     |
| DATE APPLICATION EXECUTED      |   |   |     |

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