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To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)/Execution Date(s):
THOMAS RAY SHELBURNE

Execution Date(s) 05/18/2011

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Joint Research Agreement
- Government Interest Assignment
- Executive Order 9424, Confirmatory License
- Other _____

2. Name and address of receiving party(ies)

Name: Texas Instruments Incorporated

Internal Address: _____

Street Address: P.O. Box 655474, M/S 3999

City: Dallas

State: Texas

Country: USA Zip: 75265

Additional name(s) & address(es) attached? Yes No

4. Application or patent number(s):

This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

U.S. Serial No.: 13/110,807

Filed: 18-May-2011

Confirmation No.: 4217

Additional numbers attached? Yes No

5. Name and address to whom correspondence concerning document should be mailed:

Name: Steven Shaw

Internal Address: Texas Instruments Incorporated

Street Address: P.O. Box 655474, M/S 3999

City: Dallas

State: Texas Zip: 75265

Phone Number: (972)917-5137

Fax Number: (972) 917-4418

Email Address: steven-shaw@ti.com

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00

- Authorized to be charged by credit card
- Authorized to be charged to deposit account
- Enclosed
- None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____
Expiration Date _____

b. Deposit Account Number 20-0668

Authorized User Name Tarolli, Sundheim, Covell & Turmino, L.L.P.

9. Signature: /Christopher P Harris/ *CH*

Signature

18-May-2011

Date

Christopher P. Harris, Reg. No. 43,660

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

2

Documents to be recorded (including cover sheet) should be faxed to (571)273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 22313-1450

PATENT

REEL: 026296 FRAME: 0803

700463207

CH \$40.00 200668 13110807

Application No. 13/110,807

Attorney Docket No. TI-69462

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.

WHEREAS, TEXAS INSTRUMENTS INCORPORATED, a corporation organized and existing under the laws of the State of Delaware, with a place of business at 7839 Churchill Way, M/S 3999, Dallas, Texas 75251, 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, as well as to U.S. Provisional Application No(s). 61/345,843, filed 18 May 2010;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign unto the said TEXAS INSTRUMENTS INCORPORATED, its successors and assigns, my entire right, title and interest in and to the said invention and in and to the said application(s) and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, and extensions thereof; and I hereby authorize and request the Patent and Trademark Office to issue all patents for said invention, or patents resulting therefrom, 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 corresponding rights to the invention disclosed in said application in all other countries of the world, including the right to claim priority, file applications and obtain patents under the terms of the Paris Convention for the Protection of Industrial Property, and further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such 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.

I authorize the later insertion of the nonprovisional application number and filing date hereinbelow.

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

| | | | |
|--------------------------------|-----------------------------------|-------------|-------------|
| TITLE | HART TRANSMITTER/RECEIVER SYSTEMS | | |
| NONPROVISIONAL APPLICATION NO. | 13/110,807 | FILING DATE | 18-May-2011 |

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|----------------------------|----------------------------|
| SIGNATURE OF INVENTOR | <i>Thomas R. Shelburne</i> |
| PRINTED NAME OF INVENTOR | THOMAS RAY SHELBURNE |
| DATE | 05/18/2011 |
| RESIDENCE (CITY AND STATE) | Novi, MI |

PATENT

RECORDED: 05/18/2011

REEL: 026296 FRAME: 0804

TOTAL P. 02