


Form PTO-1595 (Rev. 03-09)  
OMB No. 0651-0027 (exp. 03/31/2009)

U.S. DEPARTMENT OF COMMERCE  
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| <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; text-align: left;"> 12/30/14 </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> 01/15/2015<br/> <br/> 103670703 </div> </div>   |  |
| To the Director of the U.S. Patent and Trademark Office: Please record the documents or the new address(es) below.  |  |
| <b>1. Name of conveying party(ies)</b><br><br>Francesco Silvio Santoro, Ralf Peter Brederlow, Neil Gibson,<br>Rüdiger Kuhn<br><br>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  | <b>2. Name and address of receiving party(ies)</b><br><br>Name: <u>Texas Instruments Deutschland GMBH</u><br>Internal Address: _____<br><br>Street Address: <u>Haggertystrasse 1,</u><br>_____<br>City: <u>Freising</u><br>State: _____<br>Country: <u>Germany</u> Zip <u>85356</u><br><br>Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  |
| <b>3. Nature of conveyance/Execution Date(s):</b><br>Execution Date(s) <u>Nov. 14, 2014, Nov. 17, 2014</u><br><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger<br><input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name<br><input type="checkbox"/> Joint Research Agreement<br><input type="checkbox"/> Government Interest Assignment<br><input type="checkbox"/> Executive Order 9424, Confirmatory License<br><input type="checkbox"/> Other _____      |  |
| <b>4. Application or patent number(s):</b> <input type="checkbox"/> This document is being filed together with a new application.<br>A. Patent Application No.(s)<br><u>14543565</u><br><br>B. Patent No.(s)<br><br>Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  |  |
| <b>5. Name and address to whom correspondence concerning document should be mailed:</b><br><br>Name: <u>John Pessetto</u><br>Internal Address: <u>M5 3999</u><br><br>Street Address: <u>12500 TI Boulevard</u><br>_____<br>City: <u>Dallas</u><br>State: <u>Texas</u> Zip <u>75243</u><br>Phone Number: <u>214 479-1241</u><br>Fax Number: <u>214-567-2228</u><br>Email Address: <u>mark@hiplaw.biz</u>   | <b>6. Total number of applications and patents involved:</b> <u>1</u><br><br><b>7. Total fee (37 CFR 1.21(h) &amp; 3.41)</b> \$ <u>40</u><br><br><input checked="" type="checkbox"/> Authorized to be charged to deposit account<br><input type="checkbox"/> Enclosed<br><input type="checkbox"/> None required (government interest not affecting title)<br><br><b>8. Payment Information</b><br><br>Deposit Account Number <u>200668</u><br><br>Authorized User Name <u>Mark Hennings</u> <u>01/23/2015</u> <u>01/23/2015</u> <u>00000014</u> <u>200668</u> <u>14543565</u><br><div style="display: flex; justify-content: space-between;"> <span>01 FC:0021</span> <span>40.00 DA</span> </div> <div style="display: flex; justify-content: space-between;"> <span></span> <span>January 12, 2014</span> </div> <div style="display: flex; justify-content: space-between;"> <span></span> <span>Date</span> </div> |
| <b>9. Signature:</b> _____<br><div style="display: flex; justify-content: space-between;"> <span>/Mark Hennings/<br/>Signature</span> <span></span> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <span>Mark Hennings, Reg. No. 48,982<br/>Name of Person Signing</span> <div style="text-align: right;">             Total number of pages including cover sheet, attachments, and documents: <span style="border: 1px solid black; padding: 2px 10px;">3</span> </div> </div> |  |

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

Application No.

Attorney Docket No. TI-75136

**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 DEUTSCHLAND GMBH, a corporation organized and existing under the laws of Germany, with a place of business at Haggertystrasse 1, Freising, Germany 85356, 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). \_\_\_\_\_, filed \_\_\_\_\_;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign unto the said TEXAS INSTRUMENTS DEUTSCHLAND GMBH, 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 DEUTSCHLAND GMBH, as assignee of my entire right, title and interest.

I also hereby sell and assign to TEXAS INSTRUMENTS DEUTSCHLAND GMBH, 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 DEUTSCHLAND GMBH, 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 DEUTSCHLAND GMBH, 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.

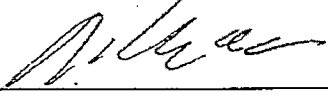
IN WITNESS WHEREOF, I hereunto set hand and seal this day and year;

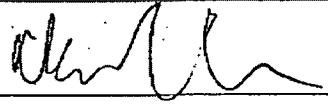
|                                |                           |             |             |
|--------------------------------|---------------------------|-------------|-------------|
| TITLE                          | POWER TRANSFER ESTIMATION |             |             |
| NONPROVISIONAL APPLICATION NO. | 14543565                  | FILING DATE | 17-NOV-2014 |

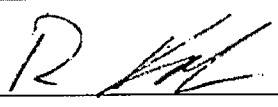
|                            |                                  |
|----------------------------|----------------------------------|
| SIGNATURE OF INVENTOR      | <i>Francesco Santoro</i>         |
| PRINTED NAME OF INVENTOR   | Francesco Silvio Santoro         |
| DATE                       | November 14 <sup>th</sup> , 2014 |
| RESIDENCE (CITY AND STATE) | Muenchen, Germany                |

Application No.

Attorney Docket No. TI-75136

|                               |   |
|-------------------------------|---|
| SIGNATURE<br>OF INVENTOR      |  |
| PRINTED NAME<br>OF INVENTOR   | Ralf Peter Brederlow  |
| DATE                          | November 14, 2014   |
| RESIDENCE<br>(CITY AND STATE) | Poing, Germany  |

|                               |   |
|-------------------------------|---|
| SIGNATURE<br>OF INVENTOR      |  |
| PRINTED NAME<br>OF INVENTOR   | Neil Gibson   |
| DATE                          | November 17, 2014   |
| RESIDENCE<br>(CITY AND STATE) | Freising, Germany   |

|                               |   |
|-------------------------------|---|
| SIGNATURE<br>OF INVENTOR      |  |
| PRINTED NAME<br>OF INVENTOR   | Rüdiger Kuhn  |
| DATE                          | November 14, 2014   |
| RESIDENCE<br>(CITY AND STATE) | Freising, Germany   |

After recording, return Assignment to: Texas Instruments Incorporated  
12500 TI Boulevard (M/S 3999)  
Dallas, Texas 75243