

## PATENT ASSIGNMENT

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| 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>Gerhard Zeller</td> <td>05/28/2013</td> </tr> <tr> <td>Manfred Stadler</td> <td>06/13/2013</td> </tr> <tr> <td>Edgar Schmidhammer</td> <td>05/22/2013</td> </tr> <tr> <td>Pasi Tikka</td> <td>05/17/2013</td> </tr> </tbody> </table> |   | Name          | Execution Date | Gerhard Zeller      | 05/28/2013 | Manfred Stadler | 06/13/2013 | Edgar Schmidhammer | 05/22/2013 | Pasi Tikka | 05/17/2013 |
| Name  | Execution Date                          |               |                |                     |            |                 |            |                    |            |            |            |
| Gerhard Zeller  | 05/28/2013                              |               |                |                     |            |                 |            |                    |            |            |            |
| Manfred Stadler   | 06/13/2013                              |               |                |                     |            |                 |            |                    |            |            |            |
| Edgar Schmidhammer  | 05/22/2013                              |               |                |                     |            |                 |            |                    |            |            |            |
| Pasi Tikka  | 05/17/2013                              |               |                |                     |            |                 |            |                    |            |            |            |
| RECEIVING PARTY DATA  |   |               |                |                     |            |                 |            |                    |            |            |            |
| Name:   | Epcos AG                                |               |                |                     |            |                 |            |                    |            |            |            |
| Street Address:   | St.-Martin-Str. 53                      |               |                |                     |            |                 |            |                    |            |            |            |
| City:   | Munchen                                 |               |                |                     |            |                 |            |                    |            |            |            |
| State/Country:  | GERMANY                                 |               |                |                     |            |                 |            |                    |            |            |            |
| Postal Code:  | 81669                                   |               |                |                     |            |                 |            |                    |            |            |            |
| 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>13883613</td> </tr> </tbody> </table>   |   | Property Type | Number         | Application Number: | 13883613   |                 |            |                    |            |            |            |
| Property Type   | Number                                  |               |                |                     |            |                 |            |                    |            |            |            |
| Application Number:   | 13883613                                |               |                |                     |            |                 |            |                    |            |            |            |
| CORRESPONDENCE DATA   |   |               |                |                     |            |                 |            |                    |            |            |            |
| Fax Number:   | 3124253909                              |               |                |                     |            |                 |            |                    |            |            |            |
| <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>  |   |               |                |                     |            |                 |            |                    |            |            |            |
| Email:  | smonreal@nixonpeabody.com               |               |                |                     |            |                 |            |                    |            |            |            |
| Correspondent Name:   | Justin D. Swindells                     |               |                |                     |            |                 |            |                    |            |            |            |
| Address Line 1:   | Nixon Peabody LLP                       |               |                |                     |            |                 |            |                    |            |            |            |
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| Address Line 4:   | Chicago, ILLINOIS 60606                 |               |                |                     |            |                 |            |                    |            |            |            |
| ATTORNEY DOCKET NUMBER:   | 037343-231USPX                          |               |                |                     |            |                 |            |                    |            |            |            |
| NAME OF SUBMITTER:  | Justin D. Swindells                     |               |                |                     |            |                 |            |                    |            |            |            |
| Signature:  | /Justin D. Swindells - Reg. No. 48,733/ |               |                |                     |            |                 |            |                    |            |            |            |

Date:

07/19/2013

**Total Attachments: 5**

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**ASSIGNMENT**

**WHEREAS**, we **GERHARD ZELLER, MANFRED STADLER, EDGAR SCHMIDHAMMER** and **PASI TIKKA**, have invented certain new and useful improvements in the following: "**DIRECTIONAL COUPLER**," for which we have made application for United States Letters Patent; the said application filed on May 6, 2013, as Application Serial No. 13/883,613; and

**WHEREAS**, EPCOS AG, a corporation organized and existing under the laws of the Country of Germany, having its principal place of business at St.-Martin-Str. 53, 81669 München, Germany, (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring my entire right, title and interest in and to the invention, and in and to the said application and any Letters Patent that may issue thereon;

**NOW, THEREFORE**, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we do hereby sell, assign and transfer unto ASSIGNEE, its successors, assigns and legal representatives the entire right, title and interest in and to said invention and in and to said applications and all patents which may be granted therefore, and all provisionals, divisions, reissues, substitutions, continuations, continuation-in-part and extensions thereof; and we hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as our interest is concerned, to the said ASSIGNEE of our entire right, title and interest.

We also hereby sell and assign to said ASSIGNEE, its successors, assigns and legal representatives the full and exclusive rights, title and interest to the invention disclosed in said applications throughout the world, including the right to file applications and obtain patents, utility models, industrial models and designs for said invention in its own name throughout the world including all rights of priority, all rights to publish cautionary notices reserving ownership of said invention and all rights to register said invention in appropriate registries; and

We further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such rights, title and interest in ASSIGNEE, its successors, assigns and legal representatives.

We hereby further agree that we will communicate to said ASSIGNEE, or its successors, assigns and legal representatives, any facts known to us respecting any improvements; and, at the expense of said ASSIGNEE, to testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, reissue and substitute applications, make all lawful oaths, and generally do everything possible to vest title in said ASSIGNEE and to aid said ASSIGNEE, its successors, assigns and legal representatives to obtain and enforce proper protection for said invention in all countries.

Customer No. 70001

**ASSIGNMENT**  
**Docket No. 037343-000231USPX**  
**Our Ref.: P2010,1763 US N**

Executed this 28 day of May, 2013.

  
Name: Gerhard Zeller

Customer No. 70001

**ASSIGNMENT**  
**Docket No. 037343-000231USPX**  
**Our Ref.: P2010,1763 US N**

Executed this 13 day of June, 2013.

  
\_\_\_\_\_  
Name: Manfred Stadler

Customer No. 70001

**ASSIGNMENT**  
**Docket No. 037343-000231USPX**  
**Our Ref.: P2010,1763 US N**

Executed this 22 day of May, 2013.

  
Name: Edgar Schmidhammer

Customer No. 70001

**ASSIGNMENT**  
Docket No. 037343-000231USPX  
Our Ref.: P2010,1763 US N

Executed this 17<sup>th</sup> day of May, 2013.



Name: Pasi Tikka