

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>Dr. Pekka IKONEN</td> <td>07/29/2013</td> </tr> <tr> <td>Juha ELLAE</td> <td>07/22/2013</td> </tr> <tr> <td>Pasi TIKKA</td> <td>08/12/2013</td> </tr> </tbody> </table>		Name	Execution Date	Dr. Pekka IKONEN	07/29/2013	Juha ELLAE	07/22/2013	Pasi TIKKA	08/12/2013		
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RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>EPCOS AG</td> </tr> <tr> <td>Street Address:</td> <td>St.-Martin-Str. 53</td> </tr> <tr> <td>City:</td> <td>Munich</td> </tr> <tr> <td>State/Country:</td> <td>GERMANY</td> </tr> <tr> <td>Postal Code:</td> <td>81669</td> </tr> </table>		Name:	EPCOS AG	Street Address:	St.-Martin-Str. 53	City:	Munich	State/Country:	GERMANY	Postal Code:	81669
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CORRESPONDENCE DATA											
<p>Fax Number: 9498519348 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 9498510633 Email: ltillman@mwe.com, mweipdocket@mwe.com</p> <p>Correspondent Name: John D. Magluyan Address Line 1: McDermott Will & Emery LLP Address Line 2: 4 Park Plaza, Suite 1700 Address Line 4: Irvine, CALIFORNIA 92614-2559</p>											
ATTORNEY DOCKET NUMBER:	090922-0141 (P2010, 1792)										
NAME OF SUBMITTER:	John D. Magluyan, Reg. No. 56,867										
Signature:	/John D. Magluyan/										

Date:

09/09/2013

Total Attachments: 4

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DA/AT/INT

Docket No.: 090922-0141 (P2010,1792 US E)

ASSIGNMENT

In consideration of the premises and other good and valuable consideration in hand paid, the receipt and sufficiency of which is hereby acknowledged, the undersigned,

- (1) Dr. Pekka IKONEN
- (2) Juha ELLA
- (3) Pasi TIKKA

who have made a certain new and useful invention, hereby sell, assign and transfer unto

EPCOS AG
St.-Martin-Str. 53
81669 Munich, GERMANY

and its successors, assigns and legal representatives (hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100 in the invention entitled

FRONT-END CIRCUIT


for which an application for United States Letters Patent was filed on June 25, 2013, and identified by United States Application No. 13/997,925;

and the undersigned hereby authorize and request the registered practitioners of McDermott Will & Emery LLP to insert the filing date and application number of said application as necessary;

and the undersigned hereby authorize and request the United States Commissioner for Patents and Trademarks to issue any and all United States Letters Patent which may be granted therefor and any and all extensions, divisions, reissues, substitutes, renewals, continuations, continuations-in-part and re-examinations thereof, and the right to all benefits under the International Convention for the Protection of Industrial Property to said ASSIGNEE, for its interest as ASSIGNEE; the undersigned agree that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE;

and the undersigned hereby agree to transfer a like interest, to render all necessary assistance in making application for and obtaining original, extended, divisional, reissued, substituted, renewed, continued, continued-in-part, and re-examined Letters Patent of the United States, upon request of said ASSIGNEE and without further remuneration, in and to any improvements and applications for patent based thereon, growing out of or related to said invention, and to execute any papers by or for said ASSIGNEE, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.


SIGNED on the dates indicated aside our signatures:

	INVENTORS	DATE SIGNED
1)	 Name: Dr. Pekka IKONEN	29 July 2013
2)	_____ Name: Juha ELLÄ	_____
3)	_____ Name: Pasi TIKKA	_____

SIGNED on the dates indicated aside our signatures:

	INVENTORS	DATE SIGNED
1)	_____ Name: Dr. Pekka IKONEN	_____
2)	_____ Name: Juha ELLA	22 nd of July 2013
3)	_____ Name: Pasi TIKKA	_____

SIGNED on the dates indicated aside our signatures:

	INVENTORS	DATE SIGNED
1) Name: Dr. Pekka IKONEN
2) Name: Juhani ELLÄ
3)	 Name: Pasi TIKKA	12.8.2013