

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT3274818

<b>SUBMISSION TYPE:</b>	CORRECTIVE ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	Corrective Assignment to correct the ASSIGNEE'S NAME previously recorded on Reel 031552 Frame 0675. Assignor(s) hereby confirms the ASSIGNMENT.
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
KALLE PETTERI KELA	10/14/2013
LAURI JOHANNES EEROLAINEN	10/14/2013
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	BROADCOM CORPORATION
<b>Street Address:</b>	5300 CALIFORNIA AVENUE
<b>City:</b>	IRVINE
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	92617
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14051666
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(703)413-2220
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
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<b>Email:</b>	hcho@oblon.com
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<b>ATTORNEY DOCKET NUMBER:</b>	447605US8
<b>NAME OF SUBMITTER:</b>	HYUN CHO
<b>SIGNATURE:</b>	/Hyun Cho/
<b>DATE SIGNED:</b>	03/20/2015
<b>Total Attachments: 4</b>	
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## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
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EPAS ID: PAT2605028

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
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LAURI JOHANNES EEROLAINEN	10/14/2013										
RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>BROADCOM</td> </tr> <tr> <td>Street Address:</td> <td>5300 CALIFORNIA AVE</td> </tr> <tr> <td>City:</td> <td>IRVINE</td> </tr> <tr> <td>State/Country:</td> <td>CALIFORNIA</td> </tr> <tr> <td>Postal Code:</td> <td>92617</td> </tr> </table>		Name:	BROADCOM	Street Address:	5300 CALIFORNIA AVE	City:	IRVINE	State/Country:	CALIFORNIA	Postal Code:	92617
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Application Number:	14051666										
CORRESPONDENCE DATA											
<p>Fax Number:</p> <p>Email: patent@stantonip.com</p> <p><i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i></p> <p>Correspondent Name: JERRY STANTON</p> <p>Address Line 1: 433 SOUTH MAIN STREET, #105</p> <p>Address Line 4: WEST HARTFORD, CONNECTICUT 06110</p>											
ATTORNEY DOCKET NUMBER:	12.0284US-1										
NAME OF SUBMITTER:	JERRY STANTON										
Signature:	/Jerry Stanton/										
Date:	11/06/2013										
<p>Total Attachments: 3</p> <p>source=RM135102_Signed_Assignment#page1.tif</p> <p>source=RM135102_Signed_Assignment#page2.tif</p> <p>source=RM135102_Signed_Assignment#page3.tif</p>											

CH \$40.00 14051666

## ASSIGNMENT

<b>Title of Invention</b>	TTI Bundling and Collision Avoidance
<b>Filing Details</b>	<p>This assignment is directed to useful improvements as described in :</p> <p><input type="checkbox"/> US Provisional Application No. _____ Filed On _____</p> <p><input checked="" type="checkbox"/> US Application No. <u>14/051,666</u> Filed On <u>11 October 2013</u></p> <p><input type="checkbox"/> a 371 national stage of _____ Filed On _____</p> <p><input type="checkbox"/> United Kingdom Patent Application _____ Filed On _____</p> <p><input type="checkbox"/> PCT Application No. _____ Filed On _____</p>

This ASSIGNMENT is between inventors Kalle Petteri Kela and Lauri Johannes Erolainen as Assignors; and BROADCOM CORPORATION as Assignee.

As the below named inventor(s), I/we have invented certain improvements in the patent application for which I/we have filed an application for Letters Patent as identified above;

WHEREAS, I/we authorize the attorney of record to update this document to include Filing Details as listed above (i/e., filing date, serial number, etc.) to correspond to the Title of the Invention and Docket Number if such Filing Details are not available at the time I/we signed this document;

WHEREAS, Broadcom, a corporation organized under the laws of California, having its principal office at 5300 California Avenue, Irvine, California, is desirous of acquiring the entire right, title and interest in and under the said invention and the said application, and in and to any and all Letters Patent which shall be granted therefore in any and all countries where it has been filed, including all rights to claim priority, and to any and all improvements which are disclosed in the invention entitled.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, and other good and valuable consideration, we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto said Assignee, its successors, legal representatives, and assigns, the entire right, title, and interest in, to and under said invention, and said application, and all divisional, renewal, substitutional, non-provisional, and continuing applications thereof, and all Letters Patent of any and all countries which may be granted thereon and all reissues, reexaminations, and extensions thereof, and all applications for Letters Patent which may be filed for said invention in any country or countries, and all extensions, renewals, reexaminations, and reissues thereof, and all prior patents and patent applications from which a filing priority of the above-described patent application may be obtained, including the right to collect past damages; and we hereby authorize and request the official of any country or countries, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said invention to said Assignee, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to said Assignee, its successors, legal representatives and assigns, any facts known to me respecting said invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, renewal, substitutional, continuing, reexamination, and reissue applications, make all rightful declarations and/or oaths and generally do everything possible to aid said Assignee, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said invention in all countries.

This Assignment is deemed to be effective at least as early as October 11, 2013.

Inventor Name: Kalle Petteri Kela  
Residence Address: Mattelmaenkatu 1 A 3  
Kaarina  
Finland 20780



Inventor Signature

Dated: 14 - Oct - 2013

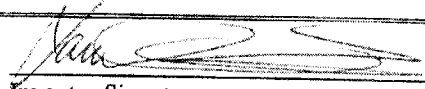


Witness Signature


Witness Name: Jassi Sabri

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Inventor Name: Lauri Johannes Eerolainen  
Residence Address: Maystintie 10  
Paimio  
Finland 21530

  
Inventor Signature

Dated: 14-Oct-2013

  
Witness Signature

Witness Name: Ville Tiikasaalo

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