

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>Esa Tapani Tirola</td> <td>06/15/2013</td> </tr> <tr> <td>Kari Pekka Pajukoski</td> <td>06/13/2013</td> </tr> <tr> <td>Kari Juhani Hooli</td> <td>08/30/2013</td> </tr> <tr> <td>Kari Horneman</td> <td>06/24/2013</td> </tr> </tbody> </table>		Name	Execution Date	Esa Tapani Tirola	06/15/2013	Kari Pekka Pajukoski	06/13/2013	Kari Juhani Hooli	08/30/2013	Kari Horneman	06/24/2013
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RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>Nokia Corporation</td> </tr> <tr> <td>Street Address:</td> <td>Keilalahdentie 4</td> </tr> <tr> <td>City:</td> <td>Espoo</td> </tr> <tr> <td>State/Country:</td> <td>FINLAND</td> </tr> <tr> <td>Postal Code:</td> <td>FIN-02150</td> </tr> </table>		Name:	Nokia Corporation	Street Address:	Keilalahdentie 4	City:	Espoo	State/Country:	FINLAND	Postal Code:	FIN-02150
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PROPERTY NUMBERS Total: 1											
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CORRESPONDENCE DATA											
<p>Fax Number: 7044441111 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 704-444-1000 Email: patent-mail@alston.com</p> <p>Correspondent Name: Guy R. Gosnell Address Line 1: 101 South Tryon Street Address Line 2: Suite 4000 Address Line 4: Charlotte, NORTH CAROLINA 28280-4000</p>											
ATTORNEY DOCKET NUMBER:	042933/433302										
NAME OF SUBMITTER:	Guy R. Gosnell										
Signature:	/GuyR Gosnell/										

PATENT

Date:

09/03/2013

Total Attachments: 5

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ASSIGNMENT - WORLDWIDE

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto

**Nokia Corporation
Keilalahdentie 4
Espoo FIN-02150
FINLAND**

its successors and assigns, the entire right, title and interest, so far as concerns the United States and the Territories and Possessions thereof and all foreign countries in and to the invention in

"RADIO RESOURCE ALLOCATION MECHANISM"

as set forth in this United States Patent Application

- ☐ executed concurrently herewith
- ☐ executed on
- ☒ Application No. 13/891,778; filed May 10, 2013
- ☐ Application is a continuation of U.S. Application No. 12/307,746, filed January 6, 2009, which is a continuation of International Application No. PCT/FI2007/050010, filed January 10, 2007, which claims priority from International Application No. PCT/FI2006/050324, filed July 7, 2006, all applications listed above being hereinafter referred to as the "application(s)";

(We hereby authorize and request the Assignee and its attorney (Alston & Bird LLP) to insert above the application number and filing date of said application when known.)

said application for United States Letters Patent, including all divisional, renewal, substitute, continuation, nonprovisionals, continuation-in-parts, and Convention applications based in whole or in part upon said inventions or upon said applications, and any and all Letters Patent and reissues, reexaminations, and extensions of Letters Patent granted for said inventions or upon said applications and every priority right that is or may be predicated upon or arise from said inventions, said applications, and said Letters Patent; said Assignee being hereby authorized to file patent applications in any or all countries on any or all said inventions in the name of the undersigned or in the name of said Assignee or otherwise as said Assignee may deem advisable, under the International Convention or otherwise; the Commissioner of Patents and Trademarks of the United States of America being hereby authorized to issue or transfer all said Letters Patent to said Assignee in accordance herewith; this assignment being under covenant, not only that full power to make the same is had by the undersigned, but also that such assigned right is not encumbered by any grant, license, or other right theretofore given, and that the undersigned will do all acts reasonably serving to ensure that the said inventions, patent applications and

Letters Patent shall be held and enjoyed by said Assignee as fully and entirely as the same could have been held and enjoyed by the undersigned if this assignment had not been made, and particularly to execute and deliver to said Assignee all lawful documents including petitions, specifications, oaths, assignments, invention disclaimers, declarations, and lawful affidavits in form and substance which may be requested by said Assignee, to furnish said Assignee with all facts relating to said inventions or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may embody said inventions, and to testify in any proceedings relating to said inventions, patent applications, and/or Letters Patent.

The undersigned hereby grant(s) an authorized representative of Assignee the power to insert in this Assignment any further identification that may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

This Assignment is deemed to be effective at least as early as July 7, 2006 (the earliest priority date).

15.6.2013
Date


Esa Tapani Tiirola

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13.06.2013

Date



Kari Pekka Pajukoski

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30.8.2013
Date

Kari Juhani Hooli
Kari Juhani Hooli

The undersigned hereby grant(s) an authorized representative of Assignee the power to insert in this Assignment any further identification that may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

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24th of June 2013
Date

Kari Horneman
Kari Horneman

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Attorney Docket No. 042933/433302

Client Ref. NC46958US-CNT