

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT2931940

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
LARS DALSGAARD	03/01/2012
JUSSI-PEKKA KOSKINEN	03/07/2012
ESA MIKAEL MALKAMÄKI	02/03/2012
ILKKA ANTERO KESKITALO	03/01/2012
JARKKO TUOMO KOSKELA	03/07/2012
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	NOKIA CORPORATION
<b>Street Address:</b>	KEILALAHDENTIE 4
<b>City:</b>	ESPOO
<b>State/Country:</b>	FINLAND
<b>Postal Code:</b>	02150
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14371396
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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>	
<b>Email:</b>	Sandy.fong-Hou@nokia.com
<b>Correspondent Name:</b>	NOKIA USA INC. ATTN: INTELLECTUAL PROPE
<b>Address Line 1:</b>	200 SOUTH MATHILDA AVE
<b>Address Line 4:</b>	SUNNYVALE, CALIFORNIA 94086
<b>ATTORNEY DOCKET NUMBER:</b>	NC77582-US-PCT
<b>NAME OF SUBMITTER:</b>	SANDY FONG-HOU
<b>SIGNATURE:</b>	/Sandy Fong-Hou/
<b>DATE SIGNED:</b>	07/09/2014
<b>Total Attachments: 6</b>	
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## ASSIGNMENT

THIS ASSIGNMENT, effective 31 January 2012, made by us, Lars DALSGAARD, a citizen of Denmark, residing at Torpantie 56, 90230 Oulu, Finland; Jussi-Pekka KOSKINEN, a citizen of Finland, residing at Kuuraparrantie 25 A 5, 90630 Oulu, Finland; Esa Mikael MALKAMÄKI, a citizen of Finland, residing at Riippakoivuntie 17 B, 02130 <sup>Espoo</sup> Oulu, Finland; *E. h* Ilkka Antero KESKITALO, a citizen of Finland, residing at Varsankuja 3, 90240 Oulu, Finland; and Jarkko Tuomo KOSKELA, a citizen of Finland residing at Kajuuttapiha 3, 90510 Oulu, Finland

WITNESSETH: That,

WHEREAS, we are the inventors of certain new and useful improvements in **METHOD AND APPARATUS FOR PRESERVING PHYSICAL UPLINK CONTROL CHANNEL RESOURCES** for which an international application under the Patent Cooperation Treaty (PCT) has been filed in the Receiving Office of the International Bureau of WIPO on 31 January 2012, under Application No. PCT/IB2012/050455;

WHEREAS, **NOKIA CORPORATION**, having a principal office at Keilalahdentie 4, FIN-02150 Espoo, Finland, hereinafter referred to as assignee, is desirous of acquiring the entire right, title and interest in and to said invention as described in said application, and in and to any and all Letters Patent which shall be granted therefor in the United States of America and all foreign countries;

NOW, THEREFORE, To Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we have sold and by these presents do hereby sell, assign, transfer and convey unto said assignee, its successors and assigns, the entire right, title and interest in and to the said invention and application, and in and to any and all continuations, continuations-in-part, or divisions thereof, and in and to any and all Letters Patent of the United States of America and all foreign countries or reissues thereof which may be granted therefor or thereon, for the full end of the term for which said Letters Patent may be granted, together with the right to claim the priority of said application in all foreign countries in accordance with the International Convention, the same to be held and enjoyed by said assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made.

We hereby request that said Letters Patent be issued in accordance with this assignment.

We further covenant and agree that, at the time of the execution and delivery of these presents, we possess full title to the invention and application above-mentioned, and that we have the unencumbered right and authority to make this assignment.

We further covenant and agree to bind our heirs, legal representatives and assigns, promptly to communicate to said assignee or its representatives any facts known to us relating to said invention, to testify in any interference or legal proceedings involving said invention, to execute any additional papers which may be requested to confirm the right of the assignee, its representatives, successors or assigns to secure patent or similar protection for the said invention in all countries and to vest in the assignee complete title to the said invention and Letters Patent, without further compensation, but at the expense of said assignee, its successors, assigns and other legal representatives.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 1 day of March, 2012.

 (SEAL)  
Lars DALSGAARD

Witness:

  
Signature

Print name: Jorma Kaikkonen

Date: 1-March-2012

Witness:

  
Signature

Print name: MAURI NISSLÄ

Date: 1-March-2012

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this  
1 day of MARCH, 2012.

  
\_\_\_\_\_  
Jussi-Pekka KOSKINEN (SEAL)


Witness:

  
\_\_\_\_\_  
Signature

Print name: Jorma Kaubi

Date: 1-March-2012

Witness:

  
\_\_\_\_\_  
Signature

Print name: MAURI NISSLÄ

Date: 1-March-2012

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this  
3 day of February, 2012.

 (SEAL)  
Esa Mikael MALKAMÄKI

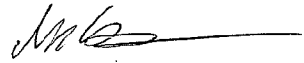
Witness:

  
Signature

Print name: JUHA KORHONEN

Date: 3.2.2012

Witness:

  
Signature

Print name: NIKO KOLEHMAINEN

Date: 3.2.2012

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this  
1 day of March, 2012.

  
\_\_\_\_\_  
Ilkka Antero KESKITALO (SEAL)

Witness:

  
\_\_\_\_\_  
Signature

Print name: Jari Karkkainen

Date: 1-March-2012

Witness:

  
\_\_\_\_\_  
Signature

Print name: MAURI MÄSSIK

Date: 1-March-2012

1 IN WITNESS WHEREOF, I have hereunto set my hand and seal on this  
day of March, 2012.

  
\_\_\_\_\_  
Jarkko Tuomo KOSKELA (SEAL)

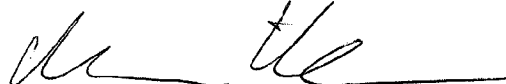
Witness:

  
\_\_\_\_\_  
Signature

Print name: Jorma Kaikkonen

Date: 1-March-2012

Witness:

  
\_\_\_\_\_  
Signature

Print name: MAURI NIISILÄ

Date: 1-March-2012