

# PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
<b>CONVEYING PARTY DATA</b>											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Asbjorn Gravlen</td> <td>10/21/2009</td> </tr> <tr> <td>Tsuyoshi Kashima</td> <td>02/14/2010</td> </tr> <tr> <td>Jarkko Tuomo Koskela</td> <td>05/17/2010</td> </tr> </tbody> </table>		Name	Execution Date	Asbjorn Gravlen	10/21/2009	Tsuyoshi Kashima	02/14/2010	Jarkko Tuomo Koskela	05/17/2010		
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<b>RECEIVING PARTY DATA</b>											
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">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>02150</td> </tr> </table>		Name:	Nokia Corporation	Street Address:	Keilalahdentie 4	City:	Espoo	State/Country:	FINLAND	Postal Code:	02150
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<b>PROPERTY NUMBERS Total: 1</b>											
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<b>CORRESPONDENCE DATA</b>											
<p>Fax Number: (972)894-5619</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 972-249-5340</p> <p>Email: linda.ingram@nokia.com</p> <p>Correspondent Name: Nokia Inc.</p> <p>Address Line 1: 6021 Connection Dr.</p> <p>Address Line 2: MS 2-5-520</p> <p>Address Line 4: Irving, TEXAS 75039</p>											
ATTORNEY DOCKET NUMBER:	NC57667US-PCT										
NAME OF SUBMITTER:	Anand Gupta										
<p>Total Attachments: 4</p> <p>source=NC57667USAssignment#page1.tif</p>											

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**PATENT**  
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**ASSIGNMENT**

WHEREAS, we,

(1)	Asbjorn Krovlen	of	Frederiksberg, Denmark
(2)	Tsuyoshi Kashima	of	Tokyo, Japan
(3)	Jarkko Tuomo Koskela	of	Oulu, Finland

have invented certain improvements in

**METHOD AND APPARATUS FOR PROVIDING CONTROL CHANNELS FOR  
BROADCAST AND PAGING SERVICES**

For which we have executed an application for Letters Patent of the United States of America, filed on November 6, 2009, and assigned application no. 12/599,176 which claims priority to US Provisional Application No. 60/916,465 filed May 7, 2007; and

WHEREAS, NOKIA CORPORATION, a corporation organized under the laws of Finland, having its principal office in Espoo, Finland (hereinafter referred to as "ASSIGNEE"), 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 the United States of America and in any and all foreign countries;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we have sold and do hereby sell, assign, transfer and convey unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and to said invention and application, and in all divisionals, reissues, substitutions, continuations, continuation-in-part and, in any and all Letters Patents of the United States of America and all foreign countries or reissues, reexaminations, or extensions thereof which may be granted therefore 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 me if this assignment and sale had not been made.


WE ALSO HEREBY authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom to the said ASSIGNEE of my entire right, title and interest.

WE FURTHER 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 application throughout the world, including, without limitation, 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. 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.

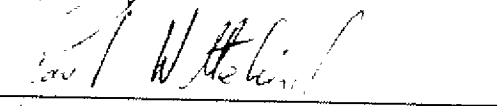
WE HEREBY covenant that we have not and we will not execute any agreement in conflict herewith.

WE HEREBY further covenant, and agree to bind our heirs, legal representatives, and assigns, promptly to communication 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 the date indicated below.

  
Asbjorn Graylen

21.10.2009  
Date

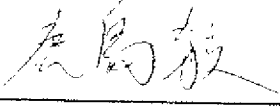
  
Witness Signature  
Printed Name PAUL WITTERKIND

22-10-2009  
Date

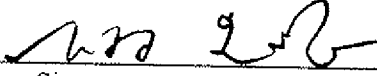
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IN WITNESS WHEREOF, I have hereunto set my hand and seal on the date indicated below.

  
\_\_\_\_\_  
Tsuyoshi Kashima

Feb. 14, 2010  
Date

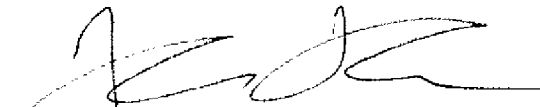
  
\_\_\_\_\_  
Witness Signature  
Printed Name Koki Kawamori

Feb 14, 2010  
Date


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IN WITNESS WHEREOF, I have hereunto set my hand and seal on the date indicated below.

  
\_\_\_\_\_  
Jarkko Tuomo Koskela

17-May-2010  
Date

  
\_\_\_\_\_  
Witness Signature  
Printed Name Antti Rauhala

17-May-2010  
Date