

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT												
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT												
<b>CONVEYING PARTY DATA</b>													
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Karri Ranta-Aho</td> <td>01/25/2008</td> </tr> <tr> <td>Harri Holma</td> <td>01/30/2008</td> </tr> <tr> <td>Jeroen Wigard</td> <td>01/25/2008</td> </tr> <tr> <td>Antti Toskala</td> <td>01/28/2008</td> </tr> <tr> <td>Juho Pirskanen</td> <td>04/23/2008</td> </tr> </tbody> </table>		Name	Execution Date	Karri Ranta-Aho	01/25/2008	Harri Holma	01/30/2008	Jeroen Wigard	01/25/2008	Antti Toskala	01/28/2008	Juho Pirskanen	04/23/2008
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Juho Pirskanen	04/23/2008												
<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>	FIN-02150												
<b>PROPERTY NUMBERS Total: 1</b>													
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12019891</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12019891								
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Application Number:	12019891												
<b>CORRESPONDENCE DATA</b>													
<b>Fax Number:</b>	(972)732-9218												
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
<b>Phone:</b>	972-732-1001												
<b>Email:</b>	hunt@slater-matsil.com												
<b>Correspondent Name:</b>	Glenn W. Boisbrun												
<b>Address Line 1:</b>	Slater & Matsil, L.L.P.												
<b>Address Line 2:</b>	17950 Preston Rd., Suite 1000												
<b>Address Line 4:</b>	Dallas, TEXAS 75252												
<b>ATTORNEY DOCKET NUMBER:</b>	NOK-54445US												
<b>NAME OF SUBMITTER:</b>	Dusty D. Hunt												

CH \$40.00 12019891

Total Attachments: 4

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**ASSIGNMENT**

**WHEREAS**, we the undersigned inventors, of residences as listed below, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made, and

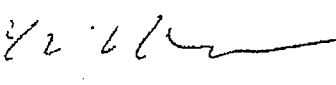
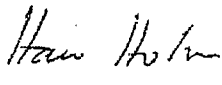
**WHEREAS**, Nokia, having a principal place of business in Espoo, Finland, ("Assignee") desires to acquire our entire right, title and interest in and to the invention, and in and to said application and any Letters Patent that may issue thereon;

**NOW, THEREFORE**, for and in consideration of good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we assign to Assignee all right, title and interest in and to said invention and in and to said application and all patents which may be granted therefor, and all divisions, reissues, continuations, continuations-in-part and extensions thereof; and in and to any applications filed in any foreign country or group of countries based thereon, including the right to file said foreign applications and to claim priority under the provisions of the International convention and any other relevant convention or treaty; and we hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as our interest is concerned, to Assignee.

We also assign to Assignee, all right, title and interest to the invention disclosed in said application throughout the world, including the right to file applications and obtain patents and legal equivalents, including utility models, industrial models and designs for said inventions in its own name throughout the world including all rights to publish cautionary notices reserving ownership of said invention and all rights to register said invention in appropriate registries; and 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 right, title and interest in Assignee.

We will communicate to Assignee any facts known to us respecting any improvements; and, at the expense of Assignee, we will testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, reissue and substitute applications, make lawful oaths and declarations and generally take all reasonable steps to vest title in Assignee and to aid Assignee to obtain and enforce proper protection for said invention in all countries.

IN WITNESS WHEREOF, I hereunto set hand and seal this day and year:

TITLE OF INVENTION	Collision Detection for Random Access Procedure		
SIGNATURE OF INVENTOR AND NAME	(1) Karri Ranta-Aho 	(2) Harri Holma 	(3) Jeroen Wigard
DATE	25.1.2008	30.1.2008	
RESIDENCE (CITY AND STATE)	Espoo, Finland	Helsinki, Finland	Klarup, Denmark

**ASSIGNMENT**

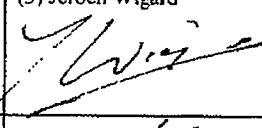
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SIGNATURE OF INVENTOR AND NAME	(1) Karri Ranta-Aho	(2) Harri Holma	(3) Jeroen Wigard 
DATE			25-1-08
RESIDENCE (CITY AND STATE)	Espoo, Finland	Helsinki, Finland	Klarup, Denmark

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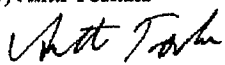
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TITLE OF INVENTION	Collision Detection for Random Access Procedure		
SIGNATURE OF INVENTOR AND NAME	(4) Antti Toskala 	(5) Juho Pirskanen	
DATE	28.1.2008		
RESIDENCE (CITY AND STATE)	Espoo, Finland	Tampere, Finland	

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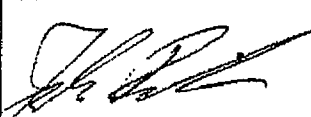
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DATE			
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		23 <sup>rd</sup> of April 2009	