

## PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	Confirmatory Assignment										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Marko E. Leinonen</td> <td>06/04/2004</td> </tr> <tr> <td>Kari Moilanen</td> <td>06/08/2004</td> </tr> <tr> <td>Jukka M. Kansanaho</td> <td>06/11/2004</td> </tr> </tbody> </table>		Name	Execution Date	Marko E. Leinonen	06/04/2004	Kari Moilanen	06/08/2004	Jukka M. Kansanaho	06/11/2004		
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Marko E. Leinonen	06/04/2004										
Kari Moilanen	06/08/2004										
Jukka M. Kansanaho	06/11/2004										
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>02150</td> </tr> </table>		Name:	Nokia Corporation	Street Address:	Keilalahdentie 4	City:	Espoo	State/Country:	FINLAND	Postal Code:	02150
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PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Patent Number:</td> <td>7089033</td> </tr> </tbody> </table>		Property Type	Number	Patent Number:	7089033						
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Patent Number:	7089033										
CORRESPONDENCE DATA											
Fax Number:	(202)293-6229										
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Address Line 4:	Washington, DISTRICT OF COLUMBIA 20006										
ATTORNEY DOCKET NUMBER:	27592-01302-US										
NAME OF SUBMITTER:	Jeffrey W. Gluck										
Total Attachments: 5											

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For  U.S. and/or  Foreign Rights  
For  U.S. Application or  U.S. Patent  
For  PCT Application  
By Single or Multiple Inventors

### ASSIGNMENT OF INVENTION

Nokia Corporation Docket No. **NC43670**  
Harrington & Smith, LLP Docket No.: **872.0173.U1(US)**  
in accordance with an agreement between ASSIGNEE and ASSIGNOR, if one name be listed  
below, or ASSIGNORS, if more than one name be listed below, and for good and valuable  
consideration,

**(1) ASSIGNOR (inventor):**

FULL NAME OF INVENTOR:	LAST NAME	FIRST NAME	MIDDLE NAME
	<b>Leinonen</b>	<b>Marko</b>	<b>E</b>

RESIDENCE & CITIZENSHIP:	CITY & STATE OR COUNTRY	CITIZENSHIP
	<b>Oulu, Finland</b>	<b>Finland</b>

POST OFFICE ADDRESS: **Rantapellontie 1 C 9, 90520 Oulu, Finland**

**(2) ASSIGNOR (inventor):**

FULL NAME OF INVENTOR:	LAST NAME	FIRST NAME	MIDDLE NAME
	<b>Moilanen</b>	<b>Kari</b>	

RESIDENCE & CITIZENSHIP:	CITY & STATE OR COUNTRY	CITIZENSHIP
	<b>Oulu, Finland</b>	<b>Finland</b>

POST OFFICE ADDRESS: **Rakentajantie 5 C 82, 90570, Oulu, Finland**

**(3) ASSIGNOR (inventor):**

FULL NAME OF INVENTOR:	LAST NAME	FIRST NAME	MIDDLE NAME
	<b>Kansanaho</b>	<b>Jukka</b>	<b>M</b>

RESIDENCE & CITIZENSHIP:	CITY & STATE OR COUNTRY	CITIZENSHIP
	<b>Tyrnävä, Finland</b>	<b>Finland</b>

POST OFFICE ADDRESS: **Pellontaus 2, 91800 Tyrnävä, Finland**

**ASSIGNEE:**

**Nokia Corporation  
Keilalahdentie 4, 02150  
Espoo, Finland**

and the successors, assigns and legal representatives of the ASSIGNEE

the entire right, title and interest

for the United States and its territorial possessions

and in all foreign countries, including all rights to claim priority  
in and to any and all improvements which are disclosed in the invention entitled:

**Mobile Terminal Having UWB and Cellular Capability**

that is found in

U.S. patent application No. 10/847,133 filed May 17, 2004.

and any legal equivalent thereof in a foreign country,  
including the right to claim priority,

and, in and to, all Letters Patent to be obtained for said invention, the above application, or any continuation, division, renewal, or substitute thereof, and as to Letters Patent any reissue or re-examination thereof.

ASSIGNOR(S) hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

ASSIGNOR(S) further covenant(s) that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR(S) and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, I (We) have hereunto set hand and seal this  
\_\_\_\_\_ (Date(s) of Signing by Assignors).

(1) **Marko E. Leinonen**  
Assignor Name Marko Leinonen  
Signature

Witnessed by Ari-Petteri Pizila  
Signature of Witness

4th June 2004  
Date

(2) **Kari Moilanen**  
Assignor Name Kari Moilanen  
Signature

Witnessed by MARKU JOENTTU  
Signature of Witness

8th June 2004  
Date

(3) **Jukka M. Kansanaho**  
Assignor Name Jukka Kansanaho  
Signature

Witnessed by Heli Pichila  
Signature of Witness

11th June 2004  
Date

For valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Marko Leinonen, residing at Nilonrinne 14, FIN-90830 Haukipudas, Finland, to ensure that the assignment dated June 4, 2004 Karl Moilanen, residing at Rakentajantie 5 C 82, FIN-90570 Oulu, Finland, to ensure that the assignment dated June 8, 2004 Jukka Kansanaho, residing at Pellontaus 2, FIN-91800 Tynärvä, Finland, to ensure that the assignment dated June 11, 2004, and filed with the United States Patent and Trademark Office on May 17, 2004, at Reel/Frame 015639/0837, respectively, is completed, hereby sell, assign, and transfer to Nokia Corporation, a corporation organized under the laws of Finland, the full extent of all right, title, and interest in and to the above identified patent application.

This Confirmatory Assignment is made fully effective on the date of the original assignment recorded at Reel/Frame 015639/0837, thereby confirming the Assignor(s)'s intent to transfer all of the Rights as of that date.

The Assignor hereby confirms that the Assignment in accordance with this copy relates to the US Patent Application Serial Number 10/847133 filed on May 17, 2004.

Marko Leinonen  
Assignor Name \_\_\_\_\_  
Signature \_\_\_\_\_  
Date \_\_\_\_\_

Kari Moilanen  
Assignor Name \_\_\_\_\_  
Signature \_\_\_\_\_

Jukka Kansanaho  
Assignor Name Jukka Kansanaho  
Signature \_\_\_\_\_  
Date 22.11.2011

(1) Marko E. Leinonen  
Assignor Name Marko Leinonen  
Signature

Witnessed by Ari-Petteri Piihla  
Signature of Witness

4th June 2004  
Date

(2) Kari Moilanen  
Assignor Name Kari Moilanen  
Signature

Witnessed by Marko Leinonen

Signature of Witness

8th June 2004  
Date

(3) Jukka M. Kansanaho  
Assignor Name Jukka Kansanaho  
Signature

Witnessed by Heli Piihla

Signature of Witness

11th June 2004  
Date

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Marko Leinonen Marko Leinonen  
Assignor Name Signature  
31th October 2011  
Date

Kari Moilanen  
Assignor Name Signature  
Date

Jukka Kansanaho  
Assignor Name Signature  
Date

(1) **Marko E. Leinonen**  
Assignor Name Marko Leinonen  
Signature

Witnessed by Ari-Petteri Pizila  
Signature of Witness

4th June 2004  
Date

(2) **Kari Moilanen**  
Assignor Name Kari Moilanen  
Signature

Witnessed by MARKO LEINONEN  
Signature of Witness 8th June 2004

Marko Leinonen  
Date

(3) **Jukka M. Kansanaho**  
Assignor Name Jukka Kansanaho  
Signature

Witnessed by Heli Pictila  
Signature of Witness Heli Pictila

11th June 2004  
Date

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Marko Leinonen  
Assignor Name \_\_\_\_\_  
Signature \_\_\_\_\_  
Date \_\_\_\_\_  
Kari Moilanen  
Assignor Name \_\_\_\_\_  
Signature Kari Moilanen  
Date 2012-07-20  
Jukka Kansanaho  
Assignor Name \_\_\_\_\_  
Signature \_\_\_\_\_  
Date \_\_\_\_\_