

# PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Jani Vare	02/04/2009
Jyrki Alamaunu	02/04/2009
Harri Pekonen	02/10/2009
Jussi Vesma	02/10/2009
RECEIVING PARTY DATA	
Name:	Nokia Corporation
Street Address:	Keilalahdentie 4
City:	Espoo
State/Country:	FINLAND
Postal Code:	FIN-02150
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	12365394
CORRESPONDENCE DATA	
Fax Number:	(202)824-3001
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone:	202-824-3000
Email:	aanderson@bannerwitcoff.com
Correspondent Name:	BANNER & WITCOFF, LTD.
Address Line 1:	1100 13th STREET, N.W.
Address Line 2:	SUITE 1200
Address Line 4:	WASHINGTON, DISTRICT OF COLUMBIA 20005-4051
ATTORNEY DOCKET NUMBER:	004770.02121
NAME OF SUBMITTER:	Chunhsi Andy Mu
Total Attachments: 3	

CH \$40.00 12365394

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**PATENT**  
**REEL: 022412 FRAME: 0869**

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ASSIGNMENT

WHEREAS, we, Jani Väre, residing at Valotie 7, 20780 Kaarina, FI, Jyrki Alamaunu, residing at Luolavuorentie 46 A 15, 20720 Turku, FI, Harri J. Pekonen, residing at Upalingontie 64, 21260 Raisio, FI and Jussi Vesma, residing at Sahurintie 3, 20320 Turku, FI (ASSIGNORS), are the inventors of certain inventions and improvements described in a U.S. patent application identified by Attorney Docket No. 004770.02121 and having the title

**MAPPING SERVICE COMPONENTS IN A BROADCAST ENVIRONMENT**

which application is executed concurrently herewith by each respective inventor, unless the following box is checked:

☒ was filed on February 4, 2009 as U.S. Application Serial No. 12/365,394 or PCT International Application Number \_\_\_\_\_.

and WHEREAS

Nokia Corporation  
Keilalahdentie 4  
FIN-02150 ESPOO  
FINLAND

ASSIGNEE, desires to acquire the entire right, title and interest in and to the said application, inventions and improvements and any patents that may be granted on or as a result thereof in the United States of America (U.S.) and in any and all foreign countries;

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged,

We hereby assign, to the above named ASSIGNEE, its successors, assigns and legal representatives (NOMINEES) the entire right, title and interest in and to said application, inventions and improvements throughout the world and to any and all patents, petty patents and utility model patents which may be granted therefor, and all continuations, continuations-in-part, divisions, reissues, extensions, renewals, and any non-provisional based on a provisional thereof (LETTERS PATENT).

And we covenant that we have full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement or do anything in conflict herewith;

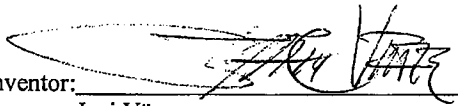
And we further covenant and agree that we will without undue delay execute without further consideration all such papers as may be necessary to perfect the title to said application, inventions and improvements, and LETTERS PATENT in the ASSIGNEE or its NOMINEES, and we agree to communicate to said ASSIGNEE or its NOMINEES all known facts respecting said application, inventions, improvements, and LETTERS PATENT, to testify in any legal proceedings, to sign all lawful papers, and generally to do all things necessary to aid ASSIGNEE or its NOMINEES to obtain and enforce for their own benefit patent protection for said application, inventions and improvements in any and all countries, all at the expense, however, of the ASSIGNEE or its NOMINEES;

And we authorize the ASSIGNEE or its NOMINEES to file in our names or their own, as appropriate, application for LETTERS PATENT in any and all countries of the world, and we authorize and request the Commissioner of Patents and Trademarks of the United States, and any proper official of any country, to issue to said ASSIGNEE or its NOMINEES any and all LETTERS

PATENT for said application, inventions and improvements, for their sole use, to the full end of the term for which such LETTERS PATENT may be granted;

And we hereby grant our attorneys at the law firm of Banner & Witcoff the power to insert into this document information sufficient to identify the patent application to which this assignment pertains.

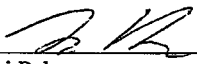
Date: 4.02.2008

Inventor:   
Jani Väre

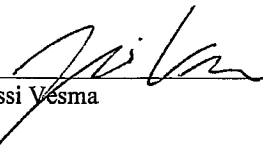
Date: \_\_\_\_\_

Inventor: \_\_\_\_\_  
Jyrki Alamaunu

Date: 10.02.2009

Inventor:   
Harri Pekonen

Date: 16.2.2009

Inventor:   
Jussi Vesma

Note: No legalization or other witness required.

LAW OFFICES  
BANNER & WITCOFF, LTD.  
1100 13<sup>th</sup> Street, NW, Suite 1200  
Washington, DC 20005  
(202) 824-3000

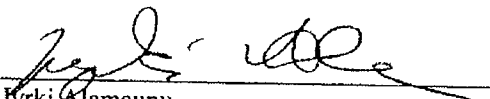
PATENT for said application, inventions and improvements, for their sole use, to the full end of the term for which such LETTERS PATENT may be granted;

And we hereby grant our attorneys at the law firm of Banner & Witcoff the power to insert into this document information sufficient to identify the patent application to which this assignment pertains.

Date: \_\_\_\_\_

Inventor: \_\_\_\_\_  
Jani Väre

Date: 04-Feb 2009

Inventor:   
Jyrki Alamaunu

Date: \_\_\_\_\_

Inventor: \_\_\_\_\_  
Harri Pekonen

Date: \_\_\_\_\_

Inventor: \_\_\_\_\_  
Jussi Vesma

Note: No legalization or other witness required.

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