### PATENT ASSIGNMENT

# Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
Tao CHEN	04/11/2012
Gilles CHARBIT	04/13/2012
Timo Kalevi KOSKELA	04/12/2012
Sami-Jukka HAKOLA	04/12/2012
Mikko Juhana RINNE	04/18/2012
Yrjo Olavi KAIPAINEN	05/10/2012

### **RECEIVING PARTY DATA**

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#### PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13501749

## **CORRESPONDENCE DATA**

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ATTORNEY DOCKET NUMBER:	NC70421-US-PCT

REEL: 028196 FRAME: 0907

**PATENT** 

NAME OF SUBMITTER:	Thomas J. Arria
Total Attachments: 7 source=70421US_Assignment_5-11-12#page2 source=70421US_Assignment_5-11-12#page2 source=70421US_Assignment_5-11-12#page2 source=70421US_Assignment_5-11-12#page2 source=70421US_Assignment_5-11-12#page8 source=70421US_Assignment_5-11-12#page8 source=70421US_Assignment_5-11-12#page8	2.tif 3.tif 4.tif 5.tif 6.tif

PATENT REEL: 028196 FRAME: 0908

#### **ASSIGNMENT**

Tille of Invention	SCHEDULING OF DIRECT TO	DIRECT COMMUNICATION
	nment is directed to (check all that app Provisional No.	
X       U.S. Application No. 13/501,749       filed on April 12, 2012         Which is a 371 National Stage of PCT/IB2009/007277 filed on 30 October 2009		

As the below named inventor(s), I/we have invented certain improvements in the patent application for which I/we have filed an application for Letters Patent of the United States of America as identified above;

WHEREAS, I/we authorize the attorney of record to update this document to include Patent Office information as deemed necessary (i.e., filing date, serial number, etc.);

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, I/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.

I/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/our entire right, title and interest.

I/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. I/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.

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

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### **ASSIGNMENT**

I/WE HEREBY further covenant, and agree to bind my/our heirs, legal representatives, and assigns, promptly to communicate to said ASSIGNEE or its representatives any facts known to me 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.

Inventor: Tao CHEI	N	Date:	11/04/20	112
Signature:	her/Jes	£ Residence:	S/000 Sale, Finland	CARN 786
Witness Signature:	Wend	Mm		
Printed Name:	WANG MIN	Date:	11.04.2	012

# **ASSIGNMENT**

Inventor: Gilles CHARBIT	Date: 13-0 4-2012
Signature:	Residence: Famborough Hampshire, GB
Witness Signature: MJD dt	_
Printed Name: MACK WACTON	Date: 13/4//2

### **ASSIGNMENT**

Inventor: Timo Kalevi KOSKELA	Date: 12.4.2012
Signature: LS Los Aula	Residence: Oulu, Finland
Witness Signature:	
Printed Name: JAMU-1 TURGTNEW	Date: 12-04-20/2

## **ASSIGNMENT**

Inventor: Sami-Jukka HAKOLA	Date: 42412 2012
Signature:	Residence: Kempele, Finland
Witness Signature:	
Printed Name: Skin ULI TURTING	Date: 12-04-2012

# **ASSIGNMENT**

Inventor: Mikko Juhana RINNE	Date: Apr 18th 2012
Signature: <u>USCo Rivine</u>	Residence: Espoo, Finland
Witness Signature:	, mai ta
Printed Name: Woo NHEE HWANG	Date: Apr. 18th 2012

## **ASSIGNMENT**

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

Inventor: Yrjö Olavi KAIPAINEN	Date: 10.5 / 2012
Signature:	Residence: Espoo, Finland
Witness Signature: <u>22.14.4.4.</u>	
Printed Name: Kaisu Iisakkila	Date:

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