

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
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EPAS ID: PAT3795300

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the 4TH INVENTOR'S LAST NAME previously recorded on Reel 038014 Frame 0556. Assignor(s) hereby confirms the ASSIGNMENT OF ASIGNOR'S INTEREST.
CONVEYING PARTY DATA	
Name	Execution Date
TORSTEN MUSIOL	02/04/2016
MIKKO TAPANI SUNI	02/29/2016
OLE REINARTZ	02/27/2016
STEPHAN GRUENLOH	02/04/2016
SWAMINATHAN ARUNACHALAM	02/03/2016
RECEIVING PARTY DATA	
Name:	NOKIA SOLUTIONS AND NETWORKS OY
Street Address:	KARAPORTTI 3
City:	ESPOO
State/Country:	FINLAND
Postal Code:	02610
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14914699
CORRESPONDENCE DATA	
Fax Number:	(703)720-7801
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
Phone:	703-720-7800
Email:	ipgeneraltyc@squiresanders.com, linda.ritter@squiresanders.com,
Correspondent Name:	SQUIRE PATTON BOGGS (US) LLP
Address Line 1:	8000 TOWERS CRESCENT DRIVE
Address Line 2:	14TH FLOOR
Address Line 4:	VIENNA, VIRGINIA 22182-6212
ATTORNEY DOCKET NUMBER:	089229.01194
NAME OF SUBMITTER:	DOUGLAS H. GOLDHUSH
SIGNATURE:	/Douglas H. Goldhush/
DATE SIGNED:	03/22/2016

Total Attachments: 8

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A S S I G N M E N T

For good and valuable consideration, I/we, the undersigned

Assignor 1)
Torsten Musiol
residing at:
Gleiwitzer Str.8
40880 Ratingen
GERMANY

Assignor 2)
Mikko Tapani Suni
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Assignor 5)
Swaminathan Arunachalam
residing at:
3844 Rolling Hills drive
75025 Plano
UNITED STATES OF AMERICA

Assignor 6)

hereby sell, assign, and transfer to

Nokia Solutions and Networks Oy

a Finnish corporation organized and existing under the laws of FINLAND , having its principal place of business in ESPOO , FINLAND herein the "Assignee", its successors, assigns and legal representatives the entire and exclusive right, title and interest in and for the United States, in all and to any improvements in the

(Title:) **METHODS AND APPARATUS**

disclosed in the application for Letters Patent designating the United States, said application being identified in our records as

IDNR: 2022 /15. 10.2010/ger

Applicants File No. 2013P00173WOUS
US-/PCT-Application No. PCT/EP2013/068023

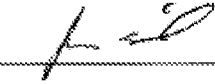
and in and to said application and all divisional, continuing substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States on any of said improvements; and in and to all original and reissued patents which have been or shall be issued in the United States on said improvements; hereby agree that said Assignee may apply for and receive Letters Patent for said improvements in its own name and that when requested without charge to but at the expense of said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this agreement, the undersigned will execute all divisional, continuing substitute, renewal, reissue and all other patent applications on any and all said improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns and legal representatives all facts known to the undersigned relating to said improvements and the history thereof; and generally do everything possible which said Assignee, its successors, assigns, or legal representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patents and all patents on said improvements in said Assignee, its successors, assigns, and legal representatives; and hereby covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed had been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

2013P00173WOUS

3/7

Assignor 1)

Date: 04/02/2016



Torsten Musiol

Assignor 2)

Date: 29.2.2016

A handwritten signature in dark ink, appearing to read 'Mikko Suni', written over a horizontal line.

Mikko Tapani Suni

2013P00173WOUS

5/7

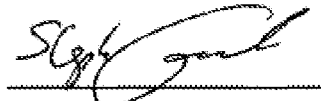
Assignor 3)

Date: 17.02.2016


Ole Reinartz

Assignor 4)

Date: 4. 2. 2016


Stephan Gruenloh

Assignor 5)

Date: 3rd Feb 2016



Swaminathan Arunachalam

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3788461

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	TORSTEN MUSIOL	02/04/2016
	MIKKO TAPANI SUNI	02/29/2016
	OLE REINARTZ	02/17/2016
	STEPHAN GRUENIOH	02/04/2016
	SWAMINATHAN ARUNACHALAM	02/03/2016
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Phone:	703-720-7800	
Email:	ipgeneraltyc@squiresanders.com, douglas.goldhush@squirepb.com, linda.ritter@squiresanders.com,	
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