

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
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EPAS ID: PAT8006239

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the SECOND INVENTOR'S EXECUTION DATE previously recorded on Reel 060239 Frame 0979. Assignor(s) hereby confirms the ASSIGNMENT..
RESUBMIT DOCUMENT ID:	507838843

CONVEYING PARTY DATA

Name	Execution Date
TIMO ERKKI LUNTTILA	07/30/2018
ESA TAPANI TIIROLA	08/01/2018
KARI JUHANI HOOLI	07/31/2018

RECEIVING PARTY DATA

Name:	NOKIA SOLUTIONS AND NETWORKS OY
Street Address:	KARAKAARI 7
City:	ESPOO
State/Country:	FINLAND
Postal Code:	02610

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16997192

CORRESPONDENCE DATA

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NAME OF SUBMITTER:	TORREY L. WYATT
SIGNATURE:	/Torrey L. Wyatt/
DATE SIGNED:	06/14/2023

Total Attachments: 7

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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT7389523

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	TIMO ERKKI LUNTTILA	07/30/2018
	ESA TAPANI TIIROLA	01/08/2018
	KARI JUHANI HOOLI	07/31/2018
		08/01/2018
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City:	ESPOO	
State/Country:	FINLAND	
Postal Code:	02610	
PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Application Number:	16997192
CORRESPONDENCE DATA		
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NAME OF SUBMITTER:	CARTER W. REEB	
SIGNATURE:	/Carter W. Reeb/	
DATE SIGNED:	06/17/2022	
Total Attachments: 5		
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A S S I G N M E N T

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

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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:) **METHOD AND APPARATUS FOR ALLOCATING ACKNOWLEDGEMENT RESOURCES**

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

Applicants File No. 2015P02490WOUS01
US-/PCT-Application No. PCT/EP2017/050073

IDNR: 2589 /15.10.2010/get

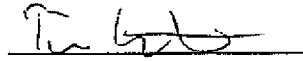
and in and to said application and all divisional, continuing substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States on any of said improvements; and in and to all original and reissued patents which have been or shall be issued 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.

2015P02490WOUS01

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Assignor 1)

Date: July 30th 2018



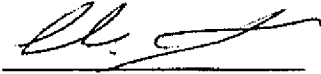
Timo Erkki Lunttila

2015P02490WOUS01

4/5

Assignor 2)

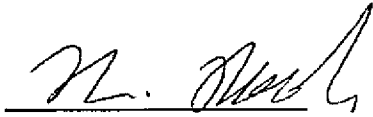
Date: 1.8.2012



Esa Tapani Tirola

Assignor 3)

Date: 31.7.2018



Kari Juhani Hooli