PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4972395

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SAMI-JUKKA HAKOLA	05/10/2018
ESA TAPANI TIIROLA	05/09/2018

RECEIVING PARTY DATA

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15777903

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ATTORNEY DOCKET NUMBER:	0051-214001-2015P01963WOU	
NAME OF SUBMITTER:	R. EDWARD BRAKE	
SIGNATURE:	/R. Edward Brake/	
DATE SIGNED: 05/22/2018		
	This document serves as an Oath/Declaration (37 CFR 1.63).	

Total Attachments: 4

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ASSIGNMENT

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

Assignor 1) Sami-Jukka Hakola

residing at:

Peikontie 7 90450 Kempele FINLAND Assignor 2) Esa Tapani Tiirola

residing at:

Porttikellonkuja 12 90450 Kempele FINLAND

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:) User Device Beamforming Training In Wireless Networks

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

Applicants File No. US-/PCT-Application No.

2015P01963WOUS PCT/EP2015/077325

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.

Assignor 1)

Date: 205,3078

Sami-Jukka Hakola

Assignor 2)

Date: 2520/2

Esa Tapani Tiirola