

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	NOKIA SHANGHAI BELL CO., LTD.	06/12/2019
	NOKIA SOULTIONS AND NETWORKS OY	09/26/2019
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	Property Type	Number
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Total Attachments: 4		
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ASSIGNMENT

This Assignment shall be effective as of November 10, 2017 (the "Effective Date").

For valuable consideration, the receipt and sufficiency of which is hereby acknowledged, **Nokia Shanghai Bell Co., Ltd.**, a corporation established and existing under the laws of China and having its principal place of business at 388 Ningqiao Road, Shanghai, 201206, People's Republic of China, and **NOKIA SOLUTIONS AND NETWORKS OY**, a corporation established and existing under the laws of Finland and having its principal place of business at Karaportti 3, 02610 Espoo, Finland (collectively, "Assignor") do hereby sell, assign, transfer and convey, subject to any existing rights, licenses and/or obligations of or to third parties, unto **NOKIA Technologies OY**, a corporation established and existing under the laws of Finland and having its principal place of business at Karaportti 3, 02610 Espoo, Finland ("Assignee"), all of Assignor's right, title and interest, for all countries, jurisdictions and political entities of the world outside of People's Republic of China (excluding Taiwan, Hong Kong SAR and Macau SAR), in and to any and all of the following (collectively, "Rights"):

- (a) The invention or inventions (collectively, "Inventions") described in **Appendix** and all the Intellectual Property rights and privileges under any and all forms of protection;
- (b) Patent applications or other applications that may be filed for protection including, without limitation, applications for certificates of invention, utility models, industrial design protection, design patent protection, and provisional patent applications wherever filed, with respect to the Inventions, (collectively, "Applications") including all rights to file and prosecute such Applications directly in the name of Assignee;
- (c) All patents including, without limitation, certificates of invention, utility models, industrial design protection, design patent protection, that may be granted, registered, or issued with respect to the Inventions or the Applications (collectively, "Patents");
- (d) All reissues, requests for continuing examinations, re-examinations, extensions, continuations, continuing prosecution applications, divisions, or registrations of, any item in any of the foregoing categories (b) or (c);
- (e) The right to claim priority rights deriving or arising from any of the foregoing categories (b), (c) or (d) and for Assignee to otherwise avail itself of the provisions of the international conventions governing the protection of inventions;
- (f) All causes of action and enforcement rights related to any of the foregoing categories (a), (b), (c) or (d) (including, without limitation, the right to sue and to pursue damages, injunctive relief, or other remedies for past, present, or future infringement, misappropriation, or violation of rights related thereto);
- (g) All rights to license and to collect royalties and other payments under or on account of any of the foregoing categories (a), (b), (c) or (d); and
- (h) Any and all other rights and interests arising out of, in connection with, or in relation to any of the foregoing categories (a), (b), (c) or (d),

with respect to which, and to the extent to which, Assignor had or has acquired the right to so sell, assign, convey, transfer and deliver.

Nothing in this Assignment shall sell, assign, transfer, convey, affect or limit, in any way, any of Assignor's rights within People's Republic of China (excluding Taiwan, Hong Kong SAR and Macau SAR).

Assignor requests the respective patent office or governmental agency in each jurisdiction to grant or issue any and all letters patents, certificates of invention, utility models or other governmental or inter-governmental grants or issuances that may be granted upon any of the Rights in the name of the Assignee, as the Assignee to the Assignor's entire interest therein.

The terms and conditions of this Assignment will inure to the benefit of Assignee, its successors or assigns, and anyone properly designated by them and will be binding upon Assignor, its successors or assigns, and anyone properly designated by them.

IN WITNESS WHEREOF, each of the Parties has caused this Assignment to be executed by its duly authorized representatives as of the Effective Date.

ASSIGNOR:

Nokia Shanghai Bell Co., Ltd.

By: Edward Zhang

Name: Edward ZHANG

Title: EDGM-Strategy & Innovation of Nokia
Shanghai Bell Co., Ltd.

Date: June 12, 2019

ASSIGNOR:

Nokia SOLUTIONS AND NETWORKS OY

By: Per Möller

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Date: 26. 09. 2019

ASSIGNOR:

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Appendix:

Reference Number	Title	Application Number	Filing Date	Submission Date	Inventor(s)
104297-WO-PCT	FLEXIBLE CYCLIC DELAY DIVERSITY CONTROL IN V2X SCENARIOS	PCT/CN2017/115260	8-Dec-17	10-Nov-17	Wildschek, Torsten; Li, Dong; Liu, Yong
104179-WO-PCT	CLOSED LOOP POWER CONTROL FOR BEAM SPECIFIC UPLINK TRAFFIC TRANSMISSION, PUSCH	PCT/CN2017/110392	10-Nov-17	2-Nov-17	Zhang, Yuan Tao; Park, Kyoungmin; Zhang, Yi
104156-WO-PCT	METHODS, DEVICES AND COMPUTER READABLE MEDIUMS FOR DEVICE-TO-DEVICE COMMUNICATION	PCT/CN2017/115466	11-Dec-17	1-Nov-17	Van Phan, Vinh; Yu, Ling; Li, Hai Tao; Xu, Xiang
104226-WO-PCT	RANDOM ACCESS WITH BANDWIDTH PART SWITCH	PCT/CN2017/111143	15-Nov-17	6-Nov-17	Sebire, Benoist Pierre; Wu, Chunli; Turtinen, Samuli Heikki
104159-WO-PCT	METHOD AND APPARATUS PROVIDING ACCESS CONTROL	PCT/CN2017/111324	16-Nov-17	1-Nov-17	Koskinen, Jussi-Pekka; Zhang, Yan Ji; Li, Hai Tao
104167-WO-PCT	RLC STATUS REPORTING IN NR	PCT/CN2017/111420	16-Nov-17	1-Nov-17	Wu, Chunli; Turtinen, Samuli Heikki; Krishnamurthy, Raghuram Reddy
104201-WO-PCT	RELAXED MONITORING FOR FURTHER ENHANCED EMTC	PCT/CN2017/111343	16-Nov-17	3-Nov-17	Zhang, Li; Li, Hai Tao

104185- WO-PCT	INTERRUPTION FREE CELL OPERATION IN NR	PCT/CN2017/111748	17-Nov-17	2-Nov-17	Zhang, Li; Dalsgaard, Lars; Nurminen, Riikka Karoliina
820979- CN-NP	Mechanism Design To Support Partial AUL Subframe Transmission In Unlicensed Spectrum	201711145620.40	17-Nov-17	1-Nov-17	Tao, Tao; Liu, Jianguo; Shen, Gang; Luo, Zhe; Wang, Jun
104210- WO-PCT	GROUPING UES USING WUS BASED ON CE/REPETITION LEVELS	PCT/CN2017/111740	17-Nov-17	3-Nov-17	Yao, Chun Hai; Mangalvedhe, Nitin; Ratasuk, Rapeepat; Baker, Matthew; Bhatoolaul, David
104177- WO-PCT	MEASUREMENT GAP SHARING FOR RLM IN NR	PCT/CN2017/111628	17-Nov-17	2-Nov-17	Zhang, Li; Dalsgaard, Lars
104193- WO-PCT	METHOD FOR USING WUS TO SKIP PAGING DCI	PCT/CN2017/111750	17-Nov-17	2-Nov-17	Yao, Chun Hai; Mangalvedhe, Nitin; Ratasuk, Rapeepat; Baker, Matthew; Bhatoolaul, David