504478719 07/28/2017

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SAMIUL MD HAQUE	02/12/2015
DI WEI	02/11/2015
STEFANO BORINI	02/11/2015
SALVATORE ZARRA	02/11/2015

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15547222

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ATTORNEY DOCKET NUMBER:	86915US INV TO NTECH
NAME OF SUBMITTER:	SANDY FONG-HOU
SIGNATURE:	/Sandy Fong-Hou/
DATE SIGNED:	07/28/2017

Total Attachments: 5

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ASSIGNMENT

I/we, (The ASSIGNOR(S)):

Samiul Md Haque Di Wei Stefano Borini Salvatore Zarra

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, hereby assign to (hereafter referred to as The ASSIGNEE):

Nokia Technologies OY Karaportti 3 02610 Espoo Finland.

An invention entitled (invention Title):

APPARATUS AND METHOD

The PATENT	RIGHTS referred to in this agreem	ent are:			
	a national Patent Application No.		filed on		
X	European Patent Application No.	15154047.3	filed on	February	06. 2015
xxx	PCT application No.	filed on		***************************************	
for this invent	ion, executed by the ASSIGNOR(S	a)			
X	U.S. Patent Application Serial No.	15/547222		filed	July 28, 2017
200	U.S. Patent No.	, issued		***************************************	
The PATENT	RIGHTS assigned under this agree	ement are:			
X	U.S. Patent rights				
X	worldwide Patent rights. In this car	se, the assign	ee shall	have the r	ight to claim the
	benefit of the filing date of any Pat	ent Applicatio	n identif	ied ahove	ignit to ordini tito
X	the full and exclusive right to the ir	nvention;			

The ASSIGNOR(S) do hereby assign the following to each ASSIGNEE; their successors and assigns:

an equal interest in and to the entire right, title and interest in and to the PATENT RIGHTS in the invention, all continuations, continuations-in-part, divisionals, re-issues, and re-examination patents and patent applications; and

the right to claim priority under 35 U.S.C. § 119, based on any earlier foreign applications for this invention.

As to all U.S. Patent Applications assigned under this Agreement, the ASSIGNOR(S) hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue all Letters Patent to the ASSIGNEE(S) as the ASSIGNEE(S) of an equal interest in the entire right, title and interest, for the sole use and enjoyment of said ASSIGNEE(S), their successors and assigns.

Further, the ASSIGNOR(S) agree(s) to communicate to said ASSIGNEE(S), or their representatives, any facts known to the ASSIGNOR(S) respecting said invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, substitute, renewal, reexamination and reissue applications, execute all necessary assignment papers to cause any and all Letters Patent to be issued to said ASSIGNEE(S), make all rightful oaths and generally do everything necessary or desirable to aid said ASSIGNEE(S), their successors and assigns, to obtain and enforced proper protection for said invention.

Further, 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.);

Each Inventor: Please sign and date below:

NC86915

Maria 1823 San and Allegania

(Samiul Md Haque)

Witness Signature Printed Name

Ard - War.

12/2/2015

Dat

<u> 12 | 2 | 2 01 S</u> Date

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2-Wei	4/2/2015
[Di Wei]	Date
Witness Signature Printed Name 1076 07WA	11/2/2015 Date

NC86915

Witness Signature
Printed Name <u>+/CIEC BRWA</u>

NC86915	
Solvatore Zoroco	11/02/2015
[Salvatore Zarra]	Date
Mo Dan	11-2-2015
Witness Signature Printed Name f ଏ.୩୧୦ ବୟୁଧନ	Date

RECORDED: 07/28/2017