

PATENT ASSIGNMENT COVER SHEET

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NATURE OF CONVEYANCE:	NUNC PRO TUNC ASSIGNMENT	
EFFECTIVE DATE:	08/16/2010	
CONVEYING PARTY DATA		
	Name	Execution Date
	MIESZKO CHMIEL	06/26/2017
RECEIVING PARTY DATA		
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PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Application Number:	12857383
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Total Attachments: 2		
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NUNC PRO TUNC ASSIGNMENT

THIS NUNC PRO TUNC ASSIGNMENT (this "Assignment") is made this 26th day of JUNE, 2017, effective as of August 16, 2010, by Mieszko Chmiel, of Glucholazy, Poland ("Assignor").

WITNESSETH

WHEREAS, Assignor is a joint inventor of the inventions related to **APPARATUS AND METHOD FOR INITIALIZATION AND MAPPING OF REFERENCE SIGNALS IN A COMMUNICATION SYSTEM** described in an application for Letters Patent of the United States, Application Serial No. 12/857,383, filed on August 16, 2010 and issued on May 17, 2016 as U.S. Patent No. 9,344,953 ("U.S. Patent"); and

WHEREAS, Assignor is desirous of assigning the aforesaid U.S. Patent to Nokia Corporation, a corporation organized and existing under the laws of FINLAND ("Assignee"), as of August 16, 2010.

NOW, THEREFORE, for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor agrees as follows:

1. For value received, Assignor hereby, sells, assigns, transfers, conveys and delivers to Assignee, nunc pro tunc, effective as of August 16, 2010, the entire right, title and interest, for the United States of America, in and to the aforesaid U.S. Patent, and all the rights and privileges in said U.S. Patent and under any and all Letters Patent that may be granted in the United States for said U.S. Patent; and I also concurrently hereby sell, assign and transfer to Assignee the entire right, title and interest in and to said U.S. Patent for all countries foreign to the United States, including all rights of priority arising from the aforesaid U.S. Patent, and all the rights and privileges under any and all forms of protection, including Letters Patent, that may be granted in said countries foreign to the United States for said U.S. Patent.

2. Assignor hereby authorizes Assignee to make application for such protection in its own name and maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for said U.S. Patent, without further authorization from me, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

3. Assignor hereby consents that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of Assignee to apply for patent or other form of protection for said U.S. Patent and to claim the aforesaid benefit of the right of priority.

4. Assignor hereby requests that any and all patents for said U.S. Patent be issued to Assignee in the United States and in all countries foreign to the United States, or to such

nominees as Assignee may designate.

I agree that, when requested, I shall, without charge to Assignee but at its expense, sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said U.S. Patent or other forms of protection.

IN WITNESS WHEREOF, the undersigned has executed this Nunc Pro Tunc Assignment as of the date first above written.

M. Chmiel
Mieszko Chmiel

26.06.2017
Date