

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ARGISHTI MELIKYAN	05/07/2019
PO DONG	05/07/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	NOKIA SOLUTIONS AND NETWORKS OY
<b>Street Address:</b>	KARAPORTTI 3
<b>City:</b>	ESPOO
<b>State/Country:</b>	FINLAND
<b>Postal Code:</b>	02610
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16402558
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(972)480-8865
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<b>ATTORNEY DOCKET NUMBER:</b>	NC316076-US-NP
<b>NAME OF SUBMITTER:</b>	RONALD J. CORBETT
<b>SIGNATURE:</b>	/Ronald J. Corbett/
<b>DATE SIGNED:</b>	05/29/2019
<b>Total Attachments: 2</b>	
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source=NC316076-US-NP_Assignment#page2.tif	

**ASSIGNMENT - WORLDWIDE**

ASSIGNOR(S)

Argishti Melikyan, Matawan, New Jersey, United States of AmericaPo Dong, Morganville, New Jersey, United States of America

ASSIGNEE

**Nokia Solutions and Networks Oy**  
Karaportti 3, 02610 Espoo, Finland

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the ASSIGNOR(S) agree to assign and hereby assign, sell, transfer and set over to the ASSIGNEE and its successors, assigns and legal representatives, the entire right, title and interest, for United States of America and for all other countries in and to (1) the invention(s) identified by the following title or application number and filing date, and (2) any and all related inventions ("RELATED INVENTIONS" as defined below).

**Title: AN OPTICAL COHERENT RECEIVER**Application number: **US 16/402558** Filing date: **2019-05-03**  
(YYYY-MM-DD)

I/we, the ASSIGNOR(S), hereby authorize and request a representative of the ASSIGNEE to insert the application number and filing date when known/received, after the execution of this document. The ASSIGNOR(S) hereby acknowledge and agree that the ASSIGNEE shall have the right to claim priority, directly or through another patent application, to the application identified above in any and all related patent applications subsequently filed in all jurisdictions.

I/we the ASSIGNOR(S) hereby acknowledge and agree that RELATED INVENTIONS include all national, regional and international patent applications filed and to be filed in any and all jurisdictions, that claim priority to the invention(s) identified by the above title or application number and filing date, said patent applications include all divisionals, continuations, re-issues, re-examinations, and continuations-in-part applications, and RELATED INVENTIONS include all rights and privileges in said patent applications and under any and all letters patent that may be granted in the United States of America and in all other countries resulting from said patent applications.

The ASSIGNOR(S) authorize the ASSIGNEE to make applications for such protection in its own name and maintain such protection in any and all countries including the United States of America, and to invoke and claim for any application for patent or other form of protection for said invention(s), without further authorization from us, any and all benefits, including the rights of priority provided by any and all treaties, conventions, or agreements.

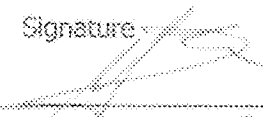
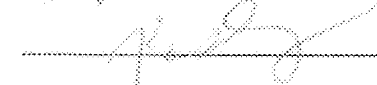
The ASSIGNOR(S) hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the

right of the ASSIGNEE to apply for patent or other form of protection for said invention(s) and to claim the aforesaid benefit of the right of priority.

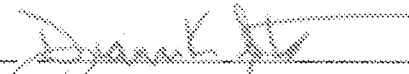
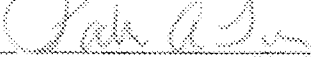
The ASSIGNOR(S) request that any and all patents for said invention(s) be issued to the ASSIGNEE, its/their successors, assigns and legal representatives, in the United States of America and in all other countries, or to such nominees as the ASSIGNEE may designate.

The ASSIGNOR(S) agree that, when requested, we shall, without charge to the ASSIGNEE sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection.

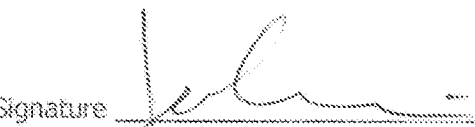

In witness whereof, each inventor/assignor please sign and date below:

Inventor (First Middle LAST)	Signature	Date (YYYY-MM-DD)
<u>Arsihti Melikyan</u>		<u>2019-05-07</u>
<u>Po Dong</u>		<u>2019-05-07</u>

This assignment should preferably be signed by the inventor(s) before (a) at least two witnesses who also sign here, or (b) a Notary Public if within the U.S.A.:

Witness Name (First Middle LAST)	Signature	Date (YYYY-MM-DD)
<u>Diane K. Statham</u>		<u>2019-05-07</u>
<u>Patricia A. Tier</u>		<u>2019-05-07</u>

The ASSIGNEE accepts this assignment:

Name <u>Jarmo J. Kemppainen</u>	Signature 
Title <u>Senior IPR Specialist</u>	Date (YYYY-MM-DD) <u>MAY 09 2019</u>
Name <u>Yan Wang</u>	Signature 
Title <u>Manager, Patenting</u>	Date (YYYY-MM-DD) <u>MAY 09 2019</u>