# PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
ORI SHENTAL	12/09/2018

## **RECEIVING PARTY DATA**

Name:	NOKIA TECHNOLOGIES OY	
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State/Country:	FINLAND	
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## **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16434377

## **CORRESPONDENCE DATA**

#### Fax Number:

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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ATTORNEY DOCKET NUMBER:	NC105566-US-NP
NAME OF SUBMITTER:	JILLIAN CURRY
SIGNATURE:	/Jillian Curry/
DATE SIGNED:	06/07/2019

#### **Total Attachments: 2**

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PATENT 505514192 REEL: 049402 FRAME: 0910

#### **ASSIGNMENT AND AGREEMENT**

For value received, I, Ori Shental, of Murray Hill, United States Of America, hereby sell, assign and transfer to 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, and its successors, assigns and legal representatives, the entire right, title and interest, for Finland, in and to certain inventions related to "EFFICIENT LINEAR DETECTION IMPLEMENTATION FOR MASSIVE MIMO" described in an application for Letters Patent of Finland, Serial No. 20185640, filed 13-Jul-2018, and all the rights and privileges in said application and under any and all Letters Patent that may be granted in Finland for said inventions; and we also concurrently hereby sell, assign and transfer to Nokia Technologies Oy the entire right, title and interest in and to said inventions for all countries foreign to Finland, including all rights of priority arising from the application aforesaid, 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 Finland for said inventions.

We authorize Nokia Technologies Oy to make application for such protection in its own name and maintain such protection in any and all countries foreign to Finland, and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization from us, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

We 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 Nokia Technologies Oy to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

We request that any and all patents for said inventions be issued to Nokia Technologies Oy in Finland and in all countries foreign to Finland, or to such nominees as Nokia Technologies Oy may designate.

PATENT REEL: 049402 FRAME: 0911 We agree that, when requested, we shall, without charge to Nokia Technologies Oy but at its expense, 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.

Inventor: Ori She	ental			
Signature:	Je my C	Date:	09/12/2018	

PATENT REEL: 049402 FRAME: 0912

**RECORDED: 06/07/2019**