

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
JOHN HARRIS	10/30/2017
UMAMAHESWAR KAKINADA	10/30/2017
GUENTHER HORN	11/02/2017
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15570646
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SIGNATURE:	/Douglas H. Goldhush/
DATE SIGNED:	12/06/2017
Total Attachments: 5	
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A S S I G N M E N T

For good and valuable consideration, I/we, the undersigned

Assignor 1)

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Umamaheswar Kakinada

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Assignor 3)

Guenther Horn

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hereby sell, assign, and transfer to

Nokia Solutions and Networks Oy

a Finnish corporation organized and existing under the laws of FINLAND , having its principal place of business in ESPOO , FINLAND herein the "Assignee", its successors, assigns and legal representatives the entire and exclusive right, title and interest in and for the United States, in all and to any improvements in the

(Title:) **Multi-security levels/traffic management across multiple network function instantiations**

disclosed in the application for Letters Patent designating the United States, said application being identified in our records as

Applicants File No.

2015P00326WOUS

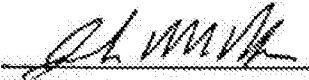
US-/PCT-Application No.

PCT/US2015/028533

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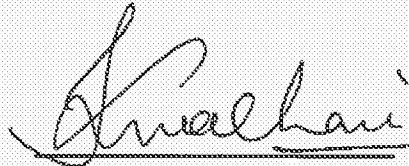
and in and to said application and all divisional, continuing substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States on any of said improvements; and in and to all original and reissued patents which have been or shall be issued in the United States on said improvements; hereby agree that said Assignee may apply for and receive Letters Patent for said improvements in its own name and that when requested without charge to but at the expense of said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this agreement, the undersigned will execute all divisional, continuing substitute, renewal, reissue and all other patent applications on any and all said improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns and legal representatives all facts known to the undersigned relating to said improvements and the history thereof; and generally do everything possible which said Assignee, its successors, assigns, or legal representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patents and all patents on said improvements in said Assignee, its successors, assigns, and legal representatives; and hereby covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed had been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Assignor 1)

Date: Oct 30, 2017 
John Harris

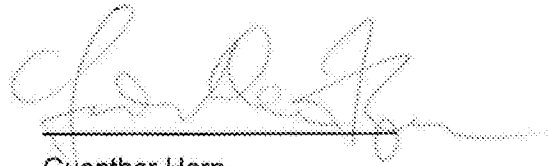
Assignor 2)

Date: 10-30-2017


Umamaheswar Kakinada

Assignor 3)

Date: 2 Nov 2017

A handwritten signature in dark ink, appearing to read 'Guenther Horn', written over a horizontal line.

Guenther Horn