

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
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FREDERICK VOOK	02/26/2015
AMITABHA GHOSH	02/26/2015
TIMOTHY THOMAS	02/26/2015
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14424121
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DATE SIGNED:	02/27/2015
Total Attachments: 5	
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2012P01154WOUS

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ASSIGNMENT

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

Assignor 1)
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UNITED STATES OF AMERICA

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:) **METHODS AND APPARATUS FOR BEAMFORMING**

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

Applicants File No. 2012P01154WOUS
US-/PCT-Application No. PCT/US2012/053293

IDNR: 2589
11 11 2010/10/10

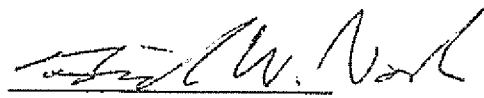
and in and to said application and all divisional, continuing substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States on any of said improvements; and in and to all original and reissued patents which have been or shall be issued 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.

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Assignor 1)

Date: 2/26/2015

A handwritten signature in black ink, appearing to read "Frederick Vook", written over a horizontal line.

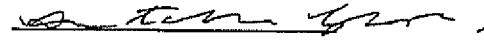
Frederick Vook

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Assignor 2)

Date: 2/26/2015



Amitabha Ghosh

2012P01154WOUS

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Assignor 3)

Date: Feb. 26, 2015


Timothy Thomas