

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Vinh VAN PHAN</td> <td>03/28/2013</td> </tr> <tr> <td>Sami HAKOLA</td> <td>03/27/2013</td> </tr> <tr> <td>Timo KOSKELA</td> <td>03/26/2013</td> </tr> </tbody> </table>		Name	Execution Date	Vinh VAN PHAN	03/28/2013	Sami HAKOLA	03/27/2013	Timo KOSKELA	03/26/2013		
Name	Execution Date										
Vinh VAN PHAN	03/28/2013										
Sami HAKOLA	03/27/2013										
Timo KOSKELA	03/26/2013										
RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>Nokia Siemens Networks Oy</td> </tr> <tr> <td>Street Address:</td> <td>Karaportti 3</td> </tr> <tr> <td>City:</td> <td>Espoo</td> </tr> <tr> <td>State/Country:</td> <td>FINLAND</td> </tr> <tr> <td>Postal Code:</td> <td>02610</td> </tr> </table>		Name:	Nokia Siemens Networks Oy	Street Address:	Karaportti 3	City:	Espoo	State/Country:	FINLAND	Postal Code:	02610
Name:	Nokia Siemens Networks Oy										
Street Address:	Karaportti 3										
City:	Espoo										
State/Country:	FINLAND										
Postal Code:	02610										
PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13878328</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13878328						
Property Type	Number										
Application Number:	13878328										
CORRESPONDENCE DATA											
Fax Number: <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Email: Aokrentowich@HSPatent.com Correspondent Name: Harrington & Smith Attorneys at Law LLC Address Line 1: 4 Research Drive Address Line 4: Shelton, CONNECTICUT 06484-6212											
ATTORNEY DOCKET NUMBER:	863.0764.U1(US)										
NAME OF SUBMITTER:	Robert J. Mauri										
Signature:	/Robert J. Mauri/										
Date:	04/09/2013										

CH \$40.00 13878328

Total Attachments: 5

source=Assignment#page1.tif

source=Assignment#page2.tif

source=Assignment#page3.tif

source=Assignment#page4.tif

source=Assignment#page5.tif

PATENT

REEL: 030178 FRAME: 0555

ASSIGNMENT

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

Assignor 1)
Vinh Van Phan
residing at:
Meritullinraitti 1 B 31
90100 Oulu
FINLAND

Assignor 2)
Sami Hakola
residing at:
Peikontie 7
90450 Kempele
FINLAND

Assignor 3)
Timo Koskela
residing at:
Rautatienkatu 50 as 5
90120 Oulu
FINLAND

Assignor 4)
residing at:

Assignor 5)

Assignor 6)

residing at:

residing at:

hereby sell, assign, and transfer to

Nokia Siemens 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:) **Apparatus and method for communication**

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

Applicants File No. 2010P01704WOUS
US-/PCT-Application No. PCT/EP2010/065111

IDNR: 2509
HE 50 000000-01

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.

2010P01704WOUS

3/5

Assignor 1)

Date: 28/03/2013

Phan Van Vinh
Vinh Van Phan

2010P01704WOUS

4/5

Assignor 2)

Date: 27.3.2017

A handwritten signature in black ink, appearing to read 'Sami Hakola', written over a horizontal line.

Sami Hakola

Assignor 3)

Date: 26.3.2013

A handwritten signature in black ink, appearing to read 'T. Koskela', written over a horizontal line.

Timo Koskela