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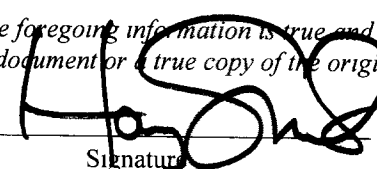


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1. 31-11

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1. Name of conveying party(ies): Volker JUNGnickel Malte SCHELLMANN Stefan SCHIFFERMULLER Lars THIELE Thomas WIRTH Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		2 Name and address of receiving party(ies): Name: Nokia Siemens Networks Oy Address: Karaportti 3 City: Espoo State: ZIP Code: 02610 Country: Finland Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
3. Nature of Conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other: Execution Date: December 6, 2010, January 20, 2011, November 24, 2010, December 6, 2010 and December 6, 2010		4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is A. Patent Application No (s): 12/991,497 B Patent No (s): Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Name and address of party to whom correspondence concerning document should be mailed. Name: Harry F. Smith, Esq. Address: Harrington & Smith, Attorneys at Law, LLC 4 Research Drive City Shelton State CT ZIP Code. 06484-6212		6 Total number of applications and/or patents involved: 1 7. Total fee (37 CFR 3.41): \$40.00 <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Charge deposit account <input checked="" type="checkbox"/> Please charge any fee deficiency to deposit account 8. Deposit account number: 50-1924	
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9. Statement And Signature: <p style="text-align: center;"><i>To the best of my knowledge and belief, the foregoing information is true and correct and, the attached document is either an original document or a true copy of the original document</i></p> <div style="display: flex; justify-content: space-between;"> <div> <u>Harry F. Smith</u> Name of Person Signing </div> <div style="text-align: center;">  Signature </div> <div style="text-align: right;"> <u>1/26/2011</u> Date </div> </div> <p style="text-align: right;">Total number of pages including cover sheet(s): 5.</p> <p style="text-align: right;">Page 1 of 5</p>			

PATENT

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A S S I G N M E N T

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

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hereby sell, assign, and transfer to

Fraunhofer Gesellschaft zur Förderung der angewandten Forschung e.V.

a German corporation organized and existing under the laws of GERMANY, having its principal place of business in MUNICH, GERMANY 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-Cell Channel Estimation in 3G-LTE based Virtual Pilot Sequences**

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

Applicants File No. 2008P00753WOUS
US Application No. 12/991,497

IDNR: 2589 /15.10.2010/gel

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: 6.12.2010

Volker Jungnickel
Volker Jungnickel

Assignor 2)

Date: 20.01.2011

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Date: 24.11.2010

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Date: 6.12.2010


Lars Thiele

Assignor 5)

Date: 6.12.10

A handwritten signature in black ink, appearing to be 'WZ' or similar, written over a horizontal line.

Thomas Wirth