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Form PTO-1595

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1. Name of conveying party(ies): 1) Markku PUKKILA 2) Nikolai NEFEDOV 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 Mobile Phones Ltd. Address: Keilalahdentie 4 City: 02150 Espoo State: ZIP Code: 9/737093 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: Both signed on 11 December 2000		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: 4 December 2000 A. Patent Application No.(s): B. Patent No.(s): 11 December 2000 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: Clarence A. Green Address: Perman & Green, LLP 425 Post Road City: Fairfield State: CT ZIP Code: 06430-6232		6. Total number of applications and/or patents involved: 1 7. Total fee (37 CFR 3.41):\$40.00 <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Charge deposit account <input checked="" type="checkbox"/> Please charge any fee deficiency to deposit account	
		8. Deposit account number: <u>16-1350</u>	
DO NOT USE THIS SPACE			
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> <p><u>Clarence A. Green</u> Name of Person Signing</p> </div> <div style="text-align: center;"> Signature </div> <div style="text-align: right;"> <p>14 Dec 2000 Date</p> </div> </div> <p style="text-align: right;">Total number of pages including cover sheet(s): 4. Page 1 of 1.</p>			

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PATENT
REEL: 011368 FRAME: 0577

Attorney's Docket No. 297-009985-US (PAR)

PATENT

For: U.S. and/or Foreign Rights
 For: U.S. Application or
 U.S. Provisional Application
 For: U.S. Patent
 For: PCT Application
 By: Multiple Inventors

ASSIGNMENT OF INVENTION (MULTIPLE INVENTORS)

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

ASSIGNORS (Inventors):

<u>Name of Inventor(s)</u>	<u>Address</u>	<u>Nationality</u>
1) PUKKILA, Markku	Itätuulenkujä 3 A 1, FIN-02100 ESPOO, Finland	Finnish
2) NEFEDOV, Nikolai	Sunantie 19 I 26, FIN-02760 ESPOO, Finland	Russian

hereby sell(s), assign(s) and transfer(s) to

ASSIGNEE: Nokia Mobile Phones Ltd.
 Address: Keilalahdentie 4, FIN-02150 ESPOO,
 Finland
 Nationality: a Finnish corporate body

and the successors, assigns and legal representatives of the ASSIGNEE

(complete one of the following)

the entire right, title and interest
 an undivided _____ percent (_____ %) interest
 for the United States and its territorial possessions

(check the following box, if foreign rights are also to be assigned)

and in all foreign countries, including all rights to claim priority
 in and to any and all improvements which are disclosed in the invention entitled:

Method and arrangement for iteratively improving a channel estimate

(Assignment of Invention - Multiple Inventors [16-3.2] page 1 of 3)

(check and complete (a), (b), (c), (d), (e), (f) or (g))

and which is found in

- (a) U.S. patent application executed on even date herewith
- (b) U.S. patent application executed on _____
- (c) U.S. provisional application naming the above inventor(s) for the above-entitled invention
 - Express mail label No.: _____
 - Mailed: _____
- To comply with 37 CFR 3.21 for recordal of this assignment, I, an ASSIGNOR signing below, hereby authorize and request my attorney to insert below the filing date and application number when they become known.
- (d) U.S. application No. ____/_____ filed on _____
- (e) International application No. PCT/_____
- (f) U.S. patent No. _____ issued _____
- A change of address to which correspondence is to be sent regarding patent maintenance fees is being sent separately.

(also check (g), if foreign application(s) is also being assigned)

- (g) and any legal equivalent thereof in a foreign country, including the right to claim priority

and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

WARNING: The date of signing must be the same as the date of execution of the application, if item (a) was checked above.

(Assignment of Invention - Multiple Inventors [16-3.2] page 2 of 3)

IN WITNESS WHEREOF, I/We have hereunto set hand and seal this 11th day of December, 2000
Date of signing

PUKKILA, Markku



Signature of INVENTOR

NEFEDOV, Nikolai



Signature of INVENTOR

Notarization or legalization Page added.

NOTE: No witnessing, notarization or legalization is necessary. If the assignment is notarized or legalized, then it will only be prima facie evidence of execution. 35 USC 261. Use next page if notarization is desired.

(Assignment of Invention - Multiple Inventors [16-3.2] page 3 of 3)