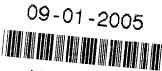
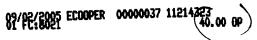
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103073001 To the Director of the Patent and Trademark Office: Attorney Dkt. No.: 042933/295015 Please record the attached documents or the new address(es) below. Name and address of receiving party(ies): 1. Name of conveying party(ies): 1. Jianzhong (Charlie) Zhang Nokia Corporation Kiran Kuchi Keilalahdentie 4 Ari Hottinen FIN-02150 Espoo Finland Additional name(s) of conveying party(ies) attached? Yes \(\sigma\) No \(\times\) 3. Nature of conveyance/ Execution Date(s): Additional name(s) & address(es) attached? Yes \(\subseteq\) No \(\subseteq\) Execution Date(s) (1), (2) July 27, 2005; (3) August 1, 2005 **◯** Assignment ☐ Merger ☐ Change of Name Security Agreement ☐ Joint Research Agreement Government Interest Assignment Executive Order 9424, Confirmatory License Other 4. Application or patent number(s): A. Patent Application No.(s) To be assigned B. Patent No.(s) This document is being filed together with a new application. Additional numbers attached? Yes \(\square\) No \(\square\) 5. Name and address of party to whom correspondence Total number of applications and patents involved: concerning document should be mailed: One (1) **ALSTON & BIRD LLP** Bank of America Plaza 101 South Tryon Street, Suite 4000 Charlotte, NC 28280-4000 7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00 Enclosed Authorized to be charged to deposit account None required (government interest not affecting title) Deposit account number: 16-0605 DO NOT USE THIS SPACE 9. Statement and signature: To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Name of Person Signing: Andrew T. Spence Reg. No. 45,699 Total number of pages including cover sheet, attachments, and documents: Five (5)

CLT01/4734429v1



USPTO Fax Number for New Assignments (703) 306-5995

ASSIGNMENT

THIS ASSIGNMENT, made by us, Jianzhong (Charlie) Zhang, citizen of China, residing at 504 Renfro Court, Irving, Texas 75063; Kiran Kuchi, citizen of India, residing at 908 Meadow Creek Drive, No. 3082, Irving, Texas 75038; and Ari Hottinen, citizen of Finland, residing at Ristiniementie 4 o 30, FIN-02320 Espoo, Finland, respectively;

WITNESSETH: That,

WHEREAS, we are the joint inventors of certain new and useful improvements in SYSTEM AND METHOD FOR SPACE-TIME-FREQUENCY CODING IN A MULTI-ANTENNA TRANSMISSION SYSTEM for which an application for United States Letters Patent has been executed by us concurrently herewith,

WHEREAS, NOKIA CORPORATION, a Finland corporation having a principal place of business at Keilalahdentie 4, FIN-02150 Espoo, Finland, hereinafter referred to as assignee, is desirous of acquiring the entire right, title, and interest in and to said invention as described in said application, and in and to any and all Letters Patent which shall be granted therefor in the United States of America and all foreign countries;

NOW, THEREFORE, To Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we have sold and by these presents do hereby sell, assign, transfer, and convey unto the said assignee, its successors and assigns, the entire right, title, and interest in and to the said invention and application, and in and to any and all continuations, continuations-in-part, or divisions thereof, and in and to any and all Letters Patent of the United States of America and all foreign countries or reissues, reexaminations, or extensions thereof which may be granted therefor or thereon, for the full end of the term for which said Letters Patent may be granted, together with the right to claim the priority of said application in all foreign countries in accordance with the International Convention, the same to be held and enjoyed by said assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by me if this assignment and sale had not been made.

We hereby request that said Letters Patent be issued in accordance with this assignment.

We further covenant and agree that, at the time of the execution and delivery of these presents, we possess full title to the invention and application above-mentioned, and that we have the unencumbered right and authority to make this assignment.

PATENT REEL: 016929 FRAME: 0193 We further covenant, and agree to bind our heirs, legal representatives, and assigns, promptly to communicate to said assignee or its representatives any facts known to us relating to said invention, to testify in any interference or legal proceedings involving said invention, to execute any additional papers which may be requested to confirm the right of the assignee, its representatives, successors, or assigns to secure patent or similar protection for the said invention in all countries and to vest in the assignee complete title to the said invention and Letters Patent, without further compensation, but at the expense of said assignee, its successors, assigns, and other legal representatives.

Jianzhong (Charlie) Zhang

Witness:

(SEAL)

IN WITNESS WHEREOF, we have hereunto set our hands and seals on this, and, 2005.	15th
(SEA)	I.)
Kiran Kuchi	2,
Witness:	

- 3 -

IN WITNESS WHEREOF, w	ve have hereunto set our hands and seals on the	hisSt
day of		
	De	_(SEAL)
	Ari Hottinen	
Witness:		
PIRJO PASANEN		

CLT01/4727103v1

RECORDED: 08/29/2005