| . <u></u> | U.S. PTO 11/819690 |
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| 103424834 - | se record the attached documents or the new address(es) below. |
| 1. Name of conveying party(ies) | 2. Name and address of receiving party(ies) |
| MA, Jianglei | Name: NORTEL NETWORKS LIMITED |
| JIA, Ming ZHU, Peiying TONG, Wen | Internal Address: |
| Additional name(s) of conveying party(les) attached? Yes No 3. Nature of conveyance/Execution Date(s): | Street Address: 2351 Boulevard Alfred-Nobel |
| Execution Date(s) March 7, 2002 |] |
| Assignment D Merger | City: St. Laurent |
| Security Agreement Change of Name | State: Quebec |
| Joint Research Agreement | Country: Canada Zip: H4A 2A9 |
| Government Interest Assignment Executive Order 9424, Confirmatory License | |
| Executive Order 9424, Confirmatory License Other | Additional name(s) & address(es) attached? Yes 🔀 Ne |
| | document is being filed together with a new application. |
| A. Patent Application No.(s) | B. Patent No.(s) |
| Addillonal numbers a | 11/8/9690 |
| 5. Name and address to whom correspondence concerning document should be mailed: | 6. Total number of applications and patents involved: |
| Name: R. Allan Brett | 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 |
| Internal Address: P.O.Box 2999, Station D | Authorized to be charged by credit card |
| | Authorized to be charged to deposit account |
| Street Address: 900 - 55 Metcalfe Street | Enclosed None required (government interest not affecting tit) |
| | 8. Payment Information |
| City: Ottawa | |
| State: Ontario Zip: K1P 5Y6 | a. Credit Card Last 4 Numbers |
| Phone Number: 613-232-2486 | Expiration Date |
| Fax Number: 613-232-8440 | b. Deposit Account Number 19-2550 |
| Email Address: | Authorized User Name R. Allan Brett |
| 9. Signature: | June 28, 2007 Date |
| Signature | |
| R. Allan Brett | Total number of pages including |

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PATENT REEL: 019539 FRAME: 0809

ASSIGNMENT NORTEL NETWORKS LIMITED

For value received, I (we) the undersigned, whose full post office address(es) is (are) adjacent my (our) name(s), hereby sell, assign and transfer to:

NORTEL NETWORKS LIMITED 2351 Boulevard Alfred-Nobel St. Laurent, Quebec, Canada H4SA 2A9

whose address is:

its successors, assigns and legal representatives, the entire right, title and interest, including priority rights, for all countries, in and to certain inventions relating to:

SCATTERED PILOT PATTERN AND CHANNEL ESTIMATION METHOD FOR MIMO-OFDM SYSTEMS

set forth in an application for letters patent of the UNITED STATES OF AMERICA

, filed on _____ January 8, 2002 Serial No. <u>10/038.883</u>

and all rights and privileges under any and all letters patent that may be granted for said inventions.

fingles Min Date: March. 7 202

Witness' Signature

MING JIA

Witness' Name (print)

reifing Zhu

Witness' Signature

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