

PATENT ASSIGNMENT COVER SHEET

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|--|--|---------------|----------------|---------------------|------------|------------|------------|-------------------|------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT | | | | | | | | |
| CONVEYING PARTY DATA | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>TAKASHI SUZUKI</td> <td>10/04/2007</td> </tr> <tr> <td>ZHIJUN CAI</td> <td>10/03/2007</td> </tr> <tr> <td>JAMES EARL WOMACK</td> <td>10/04/2007</td> </tr> </tbody> </table> | | Name | Execution Date | TAKASHI SUZUKI | 10/04/2007 | ZHIJUN CAI | 10/03/2007 | JAMES EARL WOMACK | 10/04/2007 |
| Name | Execution Date | | | | | | | | |
| TAKASHI SUZUKI | 10/04/2007 | | | | | | | | |
| ZHIJUN CAI | 10/03/2007 | | | | | | | | |
| JAMES EARL WOMACK | 10/04/2007 | | | | | | | | |
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| 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>14156734</td> </tr> </tbody> </table> | | Property Type | Number | Application Number: | 14156734 | | | | |
| Property Type | Number | | | | | | | | |
| Application Number: | 14156734 | | | | | | | | |
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| Date: | 02/06/2014 | | | | | | | | |

PATENT

Total Attachments: 4

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ASSIGNMENT

In consideration of One (\$1.00) Dollar and other good and valuable consideration paid to me/us by Research In Motion Limited whose full post office address is 295 Phillip Street, Waterloo, Ontario N2L 3W6, Canada (hereinafter called the Assignee), the receipt whereof is hereby acknowledged, I/we do hereby sell and assign unto the said Assignee, all my/our right(s), title and interest in and to my/our invention relating to **METHOD AND SYSTEM FOR DYNAMIC ACK/NACK REPETITION FOR ROBUST DOWNLINK MAC PDU TRANSMISSION IN LTE**, the same to be held and enjoyed by the Assignee, its successors, assigns, or legal representatives, to the full ends of the terms for which all Letters Patent therefor may be granted including any extension thereof as fully and entirely as the same would have been held and enjoyed by me/us if this assignment and sale had not been made.

AND I/WE HEREBY AUTHORIZE the Assignee to make application for and to receive Letters Patent for said invention in Canada, the United States of America, its territories and possessions, Great Britain, and all foreign countries in its own name, or in any name, at its election.

AND I/WE HEREBY COVENANT AND AGREE that we will execute or procure any further necessary assurance of the title to said invention and Letters Patent; and that I/we will at any time, upon the request and at the expense of the Assignee, execute and deliver any and all papers that may be necessary or desirable to perfect the title to said invention or any Letters Patent which may be granted therefor, in the name of the Assignee, its successors, assigns, or other legal representatives, and that I/we will, at any time, upon the request and at the expense of the Assignee, testify in any legal proceedings, sign all lawful papers, execute any additional, divisional, substituting, continuing or re-issue applications for patents for said invention, or any part or parts thereof, make all rightful oaths and generally do all lawful acts to aid the Assignee, its successors, assigns or other legal representatives to obtain and enforce patent protection in said invention in all countries, without further compensation, but at the expense of the Assignee, its successors, assigns or other legal representatives.

Page 1 of 2

AND I/WE HEREBY AUTHORIZE AND REQUEST the Commissioner of Patents or the Comptroller (as the case may be) to issue any and all Letters Patent for said invention, or resulting from said application, or from any division, re-issue, or extension thereof, to the Assignee as the sole assignee.

Signed at
this 4th day of October, 2007.

Daniel Waldor
Witness
Name: (printed) DANIEL WALDOR

Takashi Suzuki
Inventor: Takashi SUZUKI

Signed at
this 4th day of October, 2007.

Witness
Name: (printed) _____

Inventor: Zhijun CAI

Signed at
this _____ day of _____, 2007.

Witness
Name: (printed) _____

Inventor: James Earl WOMACK

2173-506
Doc. 187876

AND IWE HEREBY AUTHORIZE AND REQUEST the Commissioner of Patents or the Comptroller (as the case may be) to issue any and all Letters Patent for said invention, or resulting from said application, or from any division, re-issue, or extension thereof, to the Assignee as the sole assignee.

Signed at
this day of , 2007.

Witness
Name: (printed) _____

Inventor: Takashi SUZUKI

Signed at
this 3 day of October, 2007.

Witness
Name: (printed) LaCrissa Sapp

Cai, Hui

Inventor: Zhijun CAI

Signed at
this 3 day of October, 2007.

Witness
Name: (printed) _____

Inventor: James Earl WOMACK

2173-609
Doc. 197678

AND I/WE HEREBY AUTHORIZE AND REQUEST the Commissioner of Patents or the Comptroller (as the case may be) to issue any and all Letters Patent for said invention, or resulting from said application, or from any division, re-issue, or extension thereof, to the Assignee as the sole assignee.

Signed at
this day of , 2007.

Witness
Name: (printed) _____

Inventor: Takashi SUZUKI

Signed at
this day of , 2007.

Witness
Name: (printed) _____

Inventor: Zhijun CAI

Signed at
this 4th day of October, 2007.

Sarah Buchanan Cross
Witness
Name: (printed) Sarah Buchanan Cross

James E. Womack

Inventor: James Earl WOMACK

2173-509
Doc. 197876