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To the Honorable Commissioner of Patents and Trademarks: Please record the animal address of receiving party(les): 1. Name of conveying party(les): Peter J. Edmonson Colin K. Campbell Additional name(s) of conveying party(s) attached? Yes & No 3. Nature of conveying party(s) attached? Yes & No 3. Nature of conveying party(s) attached? Yes & No 3. Nature of conveying party(s) attached? Yes & No 3. Nature of conveying party(s) attached? Yes & No 3. Nature of conveying party(s) attached? Yes & No 4. Additional name(s) of conveying party(s) attached? Yes & No 5. Name and address: Yes & Yes & No 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) 99/867, 189 Additional numbers attached? Yes & No 5. Name and address of party to whom correspondence concerning document should be mailed: Name: Pebra L. Pejeau Internal Address: Jones, Day, Reavis & Pogue North Point Street Address: 901 Lakeside Avenue City Cleveland State: Ohio Zip: 44114 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. Debra L. Pejeau Name of Person Signing 1. Author or application or application or strue and correct and any attached copy is signature 1. Author or application or application or strue and correct and any attached copy is signature 1. Author or application or strue and correct and any attached copy is signature 2. Name and address of receiving party(ies) Name of Person Signing	To the Honorable Commissioner of Patents and Trademats: Please record the muscular display documents or copy thereof 1. Name of conveying party(ies): Peter J. Edmonson Colin K. Campbell 2. Name and address of receiving party(ies) Name: Research In Motion Limited Internal Address: 3. Nature of conveyance: 3. Additional name(s) of conveying party(se) attached? 1 Yes 1 No 3. Nature of conveyance: 3. Assignment Merger 3. Security Agreement Change of Name 4. Other Materloo, Ontario, Canada N21, 34 City: State: Zip: State: Zip: Additional name(s) & address(se) attached? 1 Yes 1 No 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) 8. Patent No.(s) 9. Name and address of party to whom correspondence (concerning document should be mailed: Name: Debra L. Pejeau Internal Address: Jones, Day, Reavis & Pogue North Point Street Address: Jones, Day, Reavis & Pogue North Point Street Address: Jones, Day, Reavis & Pogue North Point Street Address: Jones, Day, Reavis & Pogue North Point Street Address: Jones, Day, Reavis & Pogue North Point Street Address: Jones, Day, Reavis & Pogue North Point Street Address: Jones, Day, Reavis & Pogue North Point Street Address: Jones, Day, Reavis & Pogue North Point Street Address: Jones, Day, Reavis & Pogue North Point Street Address: Jones of party to whom correspondence (concerning document should be mailed: Authorized to be charged to deposit account number: 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. Debra L. Pejeau Name of Person Signing Tobal patents to be incerted with facility and concernents: Name of Person Signing Tobal patents to be incerted with eligible cover sheet information to: Name of Person Signing Tobal patents to be incerted with eligible cover sheet information to: Name of Person Signing T	Form PTO-1595 RE	
To the Honorable Commissioner of Patents and Trademarks: Please record the executed documents or copy thereof 1. Name of conveying party(ies): Peter J. Edmonson Colin K. Campbell 2. Name and address of receiving party(ies) Name: Research In Motion Limited Internal Address: Internal Address: 295 Phillip Street Waterloo, Ontario, Canada N21.3% City: State: Zip: Waterloo, Ontario, Canada N21.3% Name of Patent No.(s) B. Patent No.(s) 6. Total number of applications and patents involved: Impured to be charged to deposit account on the content of applications and patents involved: Impured to be charged to deposit account on the content of applications and patents involved: Impured to be charged to deposit account on the content of applications and patents involved: Impured to be charged to deposit account on the content of applications and patents involved: Impured to be charged to deposit account on the content of	To the Horonardic Commissioner of Palants and Trademaks: Please record the aux_field original documents or copy thereof. 1. Name of conveying party(ies): Peter J. Edmonson Colin K. Campbell 2. Name and address of receiving party(ies) Name: Research In Motion Limited Internal Address: Additional name(s) of conveying party(ies) attached? Type Syno 3. Nature of conveyance: 3. Nature of conveyance: 4. Assignment 5. Security Agreement 6. Change of Name 7. Other 6. Security Agreement 9. Other 1. Wherefore 1. Wherefore 1. Wherefore 1. Wherefore 1. Wherefore 2. Name and address: 2. Street Address: 3. Additional number(s) and additional number attached? Type Syno 4. Application No.(s) 8. Patent No.(s) 8. Patent No.(s) 7. Total fee (37 CFR 3.41) 8. Deposit account number: 9. Statement and signature. 1. Other wherefore number: 1. Street Address: 2. Name of Person Signing 1. Name of Person	OMB No. 0651-0027 (exp. 5/31/2002)	555255012237
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Internal Address: Additional name(s) of conveying party(es) attached? Yes No 3. Nature of conveyance: Security Agreement Change of Name Other Waterloo, Ontario, Canada N21. 3/6 City: State: Zip: Additional name(s) & address(s) attached? Yes No 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) B. Patent No.(s) 99/867,189 Additional numbers attached? Yes No 5. Name and address of party to whom correspondence concerning document should be mailed: Name: Debra L. Pejeau Internal Address: Jones, Day, Reavis & Pogue North Point Street Address: 901 Lakeside Avenue City: Cleveland State: Ohio Zip: 44114 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. Debra L. Pejeau Name of Person Signing Internal Address: 1	Internal Address: Additional name(s) of conveying party(es) attached? Yes No 3. Nature of conveyance: Scurity Agreement Change of Name Other Street Address: 295 Phillip Street Waterloo, Ontario, Canada N2L 36 City: Zip: Additional name(s) & address(es) attached? Yes No 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) B. Patent No.(s) 99/867, 189 Additional numbers attached? Yes No 6. Total number of applications and patents involved: The concerning document should be mailed: Name: Debra L. Pejeau Internal Address: Jones, Day, Reavis & Pogue North Point Street Address: 901 Lakeside Avenue City: Cleveland State: Ohio Zip: 44114 Chitach duplicate copy of this page if paying by deposit account) 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. Debra L. Pejeau Name of Person Signing Total values and documents. Waterloop, Ontario, Canada N2L 36 Additional name(s) & address: 29 No 6. Total number of applications and patents involved: The concerning document is a decument. (Attach duplicate copy of this page if paying by deposit account) Name of Person Signing Total values and documents. Debra L. Pejeau Mail Asquare to pages including cover sheet information to: Westerloop, O. 2 2231 Mail Asquare to be recreded with required cover sheet information to: Westerloop, O. 2 2231 Mail Asquare to pages including cover sheet information to: Westerloop, O. 2 2231 Westerloop, O. 2 2231 Mail Asquare to pages including cover sheet information to: Westerloop, O. 2 2231 Mail Asquare the foregoing and documents. Westerloop, O. 2 2231	1. Name of conveying party(ies):	Name and address of receiving party(ies)
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PATENT REEL: 012421 FRAME: 0136

ASSIGNMENT

WHEREAS, new and useful improvements have been made by the undersigned in

ADAPTIVE TUNING DEVICE AND METHOD FOR A WIRELESS COMMUNICATION DEVICE

and are the subject of a patent application filed with the United States Patent and Trademark Office on May 29, 2001, and assigned Serial No. 09/867,189, and executed by the undersigned on the dates indicated below in the appropriate spaces to the left of the signatures of the under signed, which application is further identified as Jones, Day, Reavis & Pogue Docket No. 555255-012237.

WHEREAS, RESEARCH IN MOTION LIMITED, a corporation organized under the laws of the Province of Ontario, CANADA, having a place of business at 295 Phillip Street, Waterloo, Ontario, CANADA N2L 3W8, hereinafter referred to as "assignee", is desirous of acquiring all right, title, and interest throughout the world in, to, and under said improvements and inventions and patent rights therefor.

NOW, THEREFORE, be it known that, for valuable consideration, the receipt and sufficiency of which are hereby acknowledged, all right, title, and interest, in the United States and throughout the world, in, to and under said improvements and inventions and all patents. patent applications, patent rights, and inventor's certificates thereof, therefor, and therein, including without limitation said application for patent in the United States, all divisions and continuations thereof, all patents which may be granted thereon, all reissues and extensions thereof, all right to sue for past infringement thereunder, all patents which may be granted for said improvements and inventions by states or nations other than the United States, or by other authority, entity, or organization, and all applications therefor, have been and are hereby sold, assigned, transferred, and delivered unto assignee, its successors and assigns; and it is covenanted and agreed by the undersigned, and for executors, administrators, and legal representatives of the undersigned, that at assignee's request any and all applications, affidavits, assignments, and other instruments will be made, executed, and delivered as may be necessary, or desirable to secure for or vest in assignee, its successors or assigns, any improvement, inventions, right, title, interest, application, patent, patent right or other right or property covered by this assignment, and the United States Commissioner of Patents and Trademarks is hereby requested and authorized to issue any and all United States patents granted on any of said applications to assignee as owner of the entire right, title, and interest in, to, and under the same, and appropriately empowered officials of foreign countries are hereby authorized to issue any letters patent granted on any of said applications to assignee as owner of the entire right, title and interest in, to, and under the same.

The undersigned hereby grants the firm of Jones, Day, Reavis & Pogue the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

CL-616243v1

PATENT REEL: 012421 FRAME: 0137 IN WITNESS WHEREOF, this assignment has been executed below by the undersigned:

Date:

Peter J. Edmonson
138 Stone Church Road East
Hamilton, Ontario L9B 1A9
CANADA

STATEMENT BY WITNESS

I, A. Su Mei Cheung , whose full Post Office
(Name of Witness)

address is 19 Road Court Gualph , On, NIH 8NG , Canada
(Address of Witness)

hereby declare that I was personally present and did see the above named person, personally known to me to be the person named in the assignment, duly sign and execute the same.

CL-616243v1

Date: 27 Sept 01

PATENT REEL: 012421 FRAME: 0138

Signature of Witness)

CL-616230v1

PATENT REEL: 012421 FRAME: 0139