

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Lisa Etsuko KAMITAKAHARA</td> <td>09/09/2011</td> </tr> <tr> <td>Antonio COLANTONIO</td> <td>09/07/2011</td> </tr> <tr> <td>Sandip SINGH</td> <td>09/07/2011</td> </tr> <tr> <td>Nasir Mahmood ANSARI</td> <td>09/07/2011</td> </tr> <tr> <td>Clinton Alexander Pierce SHERIDAN</td> <td>09/07/2011</td> </tr> </tbody> </table>		Name	Execution Date	Lisa Etsuko KAMITAKAHARA	09/09/2011	Antonio COLANTONIO	09/07/2011	Sandip SINGH	09/07/2011	Nasir Mahmood ANSARI	09/07/2011	Clinton Alexander Pierce SHERIDAN	09/07/2011
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CORRESPONDENCE DATA													
<p>Fax Number: (416)363-8429</p> <p>Phone: 416-479-8647</p> <p>Email: mmena@rowandlaw.com</p> <p><i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: ROWAND INTELLECTUAL PROPERTY LAW</p> <p>Address Line 1: 2nd Floor</p> <p>Address Line 2: 8 Wellington St.E.</p> <p>Address Line 4: Toronto, CANADA M5E 1C5</p>													
NAME OF SUBMITTER:	Jeffrey Tracey												
Total Attachments: 5													

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PATENT
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ASSIGNMENT

WHEREAS, I/WE, (hereinafter referred to as the "ASSIGNOR(S)");

KAMITAKAHARA, Lisa Etsuko
c/o Rogers Communications Inc.
333 Bloor St. E., Toronto, Ontario, M4W 1G9, Canada

COLANTONIO, Antonio
c/o Rogers Communications Inc.
8200 Dixie Road, Brampton, Ontario, L6T 0C1, Canada

SINGH, Sandip
c/o Rogers Communications Inc.
8200 Dixie Road, Brampton, Ontario, L6T 0C1, Canada

ANSARI, Nasir Mahmood
c/o Rogers Communications Inc.
8200 Dixie Road, Brampton, Ontario, L6T 0C1, Canada

SHERIDAN, Clinton Alexander Pierce
c/o Rogers Communications Inc.
8200 Dixie Road, Brampton, Ontario, L6T 0C1, Canada

has/have invented a **METHOD AND SYSTEM FOR MANAGING BANDWIDTH** ("Invention") for which one or more applications for patent, design registration, utility model registration, or other form of protection, rights, or title have been or will be made in certain countries ("Applications"), as further described below:

US Application Serial No. 13/230,112, filed September 12, 2011

PCT Patent Application Serial No. PCT/CA2011/050549 filed September 12, 2011

AND WHEREAS, **Rogers Communications Inc.**, (hereinafter referred to as the "ASSIGNEE"), **333 Bloor St. E., 9th Floor, Toronto, Ontario, M4W 1G9, Canada**, has acquired and/or is desirous of acquiring the full and exclusive right, title and interest in and to said Invention, said Applications inclusive of all ancillary rights relating thereto, any and all priority rights derived from said Applications, and all patents, design registrations, utility model

registrations and other forms of protection, rights and titles relating to said Invention, in any country or countries and in respect of the whole or any part or parts of or improvements to the Invention;

NOW THEREFORE, for valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR(S) does/do hereby confirm that ASSIGNOR(S) has/have transferred, conveyed and assigned, and by way of further assurance does/do hereby transfer, convey and assign, any and all of ASSIGNOR(S)'s respective rights, title and interest in and to: the Invention; the Applications; any further applications for patent, design registration, utility model registration or other forms of protection, rights or titles for the whole or any part or parts of or improvements to the Invention in any country or countries ("Further Applications") together with the right to file divisional applications, substitute applications and continuation applications of any one or more of the Applications and Further Applications ("Divisionals"); the right to obtain patents, design registrations, utility model registrations and all other forms of protection, rights and titles relating to the Invention; the right in and to any patent or reissue patent relating to the Applications, Further Applications and Divisionals ("Grants"); and the right to obtain any extensions / supplementary protection certificates ("Extensions"); together with the

right to bring proceedings to recover damages and/or to obtain other remedies for acts committed in respect of one or more of the aforesaid Invention, Applications, Grants, Further Applications, Divisionals and Extensions, whether such acts are committed before or after the date of this Worldwide Assignment; with the intent that the Invention, Applications, Grants, Further Applications, Divisionals and Extensions are owned and enjoyed by ASSIGNEE absolutely to the full end of the term or terms for same.

ASSIGNOR(S) does/do hereby agree, upon request, to provide assistance and to execute any and all further documents, at the expense of ASSIGNEE and/or its successors and assigns (as applicable), which may be necessary or desirable to enable ASSIGNEE, and/or its successors and assigns, to file, prosecute, bring proceedings and take other actions with respect to any and all of the Invention, Applications, Further Applications, Divisionals, Grants and Extensions, and any and all patents and registrations granted thereon and other forms of protection, rights and titles relating thereto, and ASSIGNOR(S) further agrees/agree to execute, upon request and at the expense of ASSIGNEE and/or its successors and assigns, any and all further documents which may be necessary to vest or perfect the title of ASSIGNEE therein.

ASSIGNOR(S) does/do hereby authorize ASSIGNEE or its patent agents or attorneys to insert, above, the jurisdictions, application numbers, filing dates and any other indicia identifying the Applications when such information is available for the purpose of recording this assignment.

ASSIGNOR(S) does/do hereby authorize and request The Commissioner of Patents or any equivalent authority to issue to ASSIGNEE each and every patent, registration and other

Ref No.: 102-0007

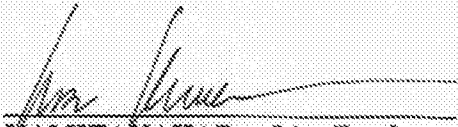
form of protection, right, and title granted upon the Applications, Further Applications, Divisionals and Extensions.

THIS ASSIGNMENT shall inure to the benefit of ASSIGNEE and its successors and assigns, and shall be binding upon ASSIGNOR(S) and their successors and permitted assigns.

DELIVERY of this Worldwide Assignment by copy, however transmitted, constitutes valid and effective delivery. This Assignment may be executed in one or more counterparts, each of which when so executed and delivered shall be an original, and such counterparts shall together constitute one and the same instrument.

IN WITNESS WHEREOF, this Assignment has been executed below by the undersigned:

Date: 9/9/11


KAMITAKAHARA, Lisa Etsuko

STATEMENT BY WITNESS

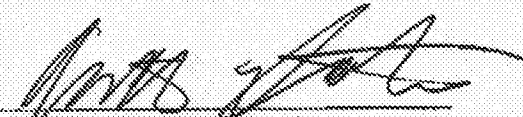
I, MARK FREEDMAN, hereby declare that I was personally present and did see the above named person, personally known to me to be a person named in the Assignment, duly sign and execute same.

Date: SEPT 9, 2011


(Signature of Witness)

IN WITNESS WHEREOF, this Assignment has been executed below by the undersigned:

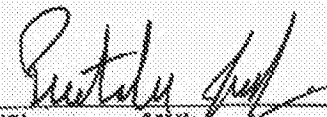
Date: 7th Sep 2011


COLANTONIO, Antonio

STATEMENT BY WITNESS


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

Date: SEP 7th, 2011


(Signature of Witness)

IN WITNESS WHEREOF, this Assignment has been executed below by the undersigned:

Date: 7th Sep, 2011


SINGH, Sandip

STATEMENT BY WITNESS

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

Date: SEP 7th, 2011


(Signature of Witness)

Ref No.: 102-0007

IN WITNESS WHEREOF, this Assignment has been executed below by the undersigned:

Date: Sep 7th, 2011

Nasir Anwar
ANSARI, Nasir Mahmood

STATEMENT BY WITNESS

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

Date: SEP 7th, 2011

Preetinder Singh
(Signature of Witness)

IN WITNESS WHEREOF, this Assignment has been executed below by the undersigned:

Date: 9/7/11

Sheridan
SHERIDAN, Clinton Alexander Pierce

STATEMENT BY WITNESS

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

Date: SEP 7th, 2011

Preetinder Singh
(Signature of Witness)