

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT						
NATURE OF CONVEYANCE:	ASSIGNMENT						
CONVEYING PARTY DATA							
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>TAJINDER MANKU</td> <td>09/20/2011</td> </tr> <tr> <td>SEMYON LEBEDEV</td> <td>08/29/2011</td> </tr> </tbody> </table>		Name	Execution Date	TAJINDER MANKU	09/20/2011	SEMYON LEBEDEV	08/29/2011
Name	Execution Date						
TAJINDER MANKU	09/20/2011						
SEMYON LEBEDEV	08/29/2011						
RECEIVING PARTY DATA							
Name:	RESEARCH IN MOTION LIMITED						
Street Address:	295 PHILLIP STREET						
City:	WATERLOO						
State/Country:	CANADA						
Postal Code:	N2L 3W8						
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>13251935</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13251935		
Property Type	Number						
Application Number:	13251935						
CORRESPONDENCE DATA							
Fax Number:	(713)456-2836						
Phone:	713-571-3400						
Email:	lauryn.smith@novakdruce.com						
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>							
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Address Line 1:	1000 Louisiana Street						
Address Line 2:	53rd Floor						
Address Line 4:	Houston, TEXAS 77002						
ATTORNEY DOCKET NUMBER:	9517.023.NPUS00						
NAME OF SUBMITTER:	Lauryn Smith						

Total Attachments: 8
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PATENT
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RIM Family Ref. No.: 40862

WORLDWIDE ASSIGNMENT

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

MANKU, Tajinder, 295 Phillip Street, Ext. 71001, Waterloo, Ontario, Canada, N2L 3W8
LEBEDEV, Semyon, 4000 Innovation Drive, Ext. 13776, Kanata, Ontario, Canada, K2K 3K1

am an/are inventor(s) of an invention entitled **DIGITAL TO ANALOG CONVERTER** ("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 # 13/251,935 **filed** October 3, 2011

EP, Application # _____ **filed** _____

AND WHEREAS, **RESEARCH IN MOTION LIMITED**, (hereinafter referred to as the "ASSIGNEE"), a company organized under the laws of the Province of Ontario, Canada, having a place of business at 295 Phillip Street, Waterloo, Ontario, N2L 3W8, Canada, 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,

RIM Family Ref. No.: 40862

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 (as applicable), 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 (as applicable), any and all further documents which may be necessary or desirable 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.

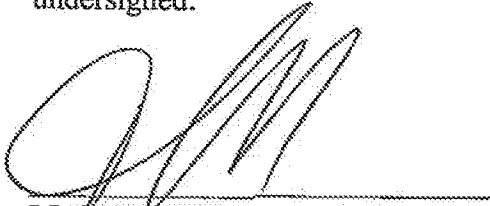
ASSIGNOR(S) does/do hereby authorize and request The Commissioner of Patents or any equivalent authority to issue to ASSIGNEE each and every patent, registration and other form of protection, right, and title granted upon the Applications, Further Applications, Divisionals and Extensions.

THIS WORLDWIDE 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 Worldwide 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.

RIM Family Ref. No.: 40862

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



MANKU, Tajinder
295 Phillip Street, Ext. 71001,
Waterloo, Ontario,
Canada, N2L 3W8

Date: Sept 20/2011

STATEMENT BY WITNESS

I, YANG LING, whose full Post Office address is

~~293~~ 295 phillip st. Waterloo ON
(Address of Witness)

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 Worldwide Assignment, duly sign and execute same.


(Signature of Witness)

Date: Sept 20/2011

RIM Family Ref. No.: 40862

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

Date: _____

LEBEDEV, Semyon,
4000 Innovation Drive, Ext. 13776,
Kanata, Ontario,
Canada, K2K 3K1

STATEMENT BY WITNESS

I, _____, whose full Post Office address is

(Address of Witness)

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 Worldwide Assignment, duly sign and execute same.

(Signature of Witness)

Date: _____

WORLDWIDE ASSIGNMENT

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

MANKU, Tajinder, 295 Phillip Street, Ext. 71001, Waterloo, Ontario, Canada, N2L 3W8
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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.

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DELIVERY of this Worldwide Assignment by copy, however transmitted, constitutes valid and effective delivery. This Worldwide 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 Worldwide Assignment has been executed below by the undersigned:

MANKU, Tajinder
295 Phillip Street, Ext. 71001,
Waterloo, Ontario,
Canada, N2L 3W8

Date: _____

STATEMENT BY WITNESS

I, _____, whose full Post Office address is

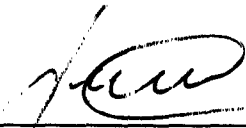
(Address of Witness)

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 Worldwide Assignment, duly sign and execute same.

(Signature of Witness)

Date: _____

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



**LEBEDEV, Semyon,
4000 Innovation Drive, Ext. 13776,
Kanata, Ontario,
Canada, K2K 3K1**

Date: 29 Aug 2011

STATEMENT BY WITNESS

I, Anna Lebedev, whose full Post Office address is
50 Waterton, Kanata, ON, K2M1Y9

(Address of Witness)

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 Worldwide Assignment, duly sign and execute same.

А. Семенов

(Signature of Witness)

Date: 29 Aug 2011