

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4108828

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT

**CONVEYING PARTY DATA**

Name	Execution Date
REDLINE INNOVATIONS GROUP INC.	10/19/2016

**RECEIVING PARTY DATA**

<b>Name:</b>	REDLINE COMMUNICATIONS INC.
<b>Street Address:</b>	302 TOWN CENTRE BLVD., 3RD FLOOR
<b>City:</b>	MARKHAM
<b>State/Country:</b>	CANADA
<b>Postal Code:</b>	L3R 0E8

**PROPERTY NUMBERS Total: 12**

Property Type	Number
Application Number:	13235569
Application Number:	14244667
Application Number:	14170622
Application Number:	14170623
Application Number:	14097475
Application Number:	14746975
Application Number:	13890676
Application Number:	13492896
Application Number:	13235576
Application Number:	13290100
Application Number:	13290102
Application Number:	10893821

**CORRESPONDENCE DATA**

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**PATENT**

<b>ATTORNEY DOCKET NUMBER:</b>	062536-1
<b>NAME OF SUBMITTER:</b>	JUSTIN D. SWINDELLS
<b>SIGNATURE:</b>	/Justin D. Swindells - Reg. No. 48,733/
<b>DATE SIGNED:</b>	10/21/2016
<b>Total Attachments: 4</b> source=062536 - Assignment Redline Innovations to Redline Communications#page1.tif source=062536 - Assignment Redline Innovations to Redline Communications#page2.tif source=062536 - Assignment Redline Innovations to Redline Communications#page3.tif source=062536 - Assignment Redline Innovations to Redline Communications#page4.tif	

## PATENT ASSIGNMENT

**WHEREAS**, REDLINE INNOVATIONS GROUP INC., a corporation, organized and existing under the laws of the Country of Canada, having its principal place of business at 302 Town Centre Blvd., 3<sup>rd</sup> Floor, Markham, Ontario, Canada L3R 0E8, (hereinafter referred to as "Assignor"), owns the entire right, title and interest in and to the patents and patent applications set forth on Attachment A attached hereto; and


**WHEREAS**, REDLINE COMMUNICATIONS INC., a corporation organized and existing under the laws of Canada, having its principal place of business at 302 Town Centre Blvd., 3<sup>rd</sup> Floor, Markham, ON L3R 0E8, Canada (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring the entire right, title and interest in and to the inventions listed in Attachment A attached hereto, and in and to the said applications and any Letters Patent that may issue thereon;

**NOW, THEREFORE**, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor does hereby sell, assign and transfer unto ASSIGNEE, its successors, assigns and legal representatives, Assignor's entire right, title and interest in and to the said patents and applications set forth on Attachment A attached hereto and all patents that may be granted therefore, and all provisionals, divisions, reissues, substitutions, continuations, continuation-in-part and extensions thereof; and Assignor hereby authorizes and requests the Commissioner of Patents and Trademarks to issue all patents for the said applications insofar as Assignor's interest is concerned, to the said ASSIGNEE of Assignor's entire right, title and interest.

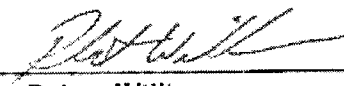
Assignor also hereby sells and assigns to said ASSIGNEE, its successors, assigns and legal representatives, the full and exclusive rights, title, and interest in and to the said patents and applications set forth in Attachment A throughout the world, including the right to file applications and obtain patents, utility models, industrial models and designs for said patents and patent applications in its own name throughout the world including all rights of priority, all rights to publish cautionary notices reserving ownership of said invention and all rights to register said invention in appropriate registries; and

Assignor further agrees to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such rights, title and interest in ASSIGNEE, its successors, assigns and legal representatives.

Signed, sealed and delivered for and on behalf of **REDLINE INNOVATIONS GROUP**  
INC., this 19<sup>th</sup> day of Oct., 2016:

By   
Name: Jane Todd  
Title: Chief Financial & Operating Officer

Signed, sealed and delivered for and on behalf of **REDLINE COMMUNICATIONS**  
INC., this 19 day of OCT, 2016:

By   
Name: Robert Williams  
Title: Chief Executive Officer

**ATTACHMENT A**

FOR PATENT ASSIGNMENT FROM  
REDLINE INNOVATIONS GROUP INC. to REDLINE COMMUNICATIONS INC.

PATENTS AND PATENT APPLICATIONS SUBJECT TO THE ASSIGNMENT

<b>PATENT / APPLICATION NO. (ATTORNEY DOCKET NO.)</b>	<b>FILING / GRANT DATE</b>	<b>TITLE</b>
U.S. Patent No. 8,891,464 (U.S. Patent Application No. 13/235,569) (12USPT)	Granted November 18, 2014	Architecture, Devices And Methods For Supporting Multiple Channels In A Wireless System
U.S. Patent No. 9,178,540 (U.S. Patent Application No. 14/244,667) (13USPT)	Granted November 3, 2015	Systems And Methods For Increasing The Effectiveness Of Digital Pre-Distortion In Electronic Communications
U.S. Patent Application No. 14/672,361 (14USPT)	Filed March 30, 2015	Systems And Methods For Increasing The Effectiveness Of Digital Pre-Distortion In Electronic Communications
U.S. Patent No. 9,209,848 (U.S. Patent Application No. 14/170,622) (15USPT)	Granted December 8, 2015	Methods And Systems For Dual-Using A Reception Channel
U.S. Patent Application No. 14/170,623 (16USPT)	Filed February 2, 2014	Systems And Methods For Reducing Peak To Average Power Ratio
U.S. Patent Application No. 14/097,475 (17USP1)	Filed December 5, 2013	Mobile Base Station
U.S. Patent Application No. 14/746,975 (18USC1)	Filed June 23, 2015	Methods For Supporting Multiple Operators In A Wireless Basestation
U.S. Patent No. 9,094,953 (U.S. Patent Application No. 13/890,676) (18USD1)	Granted July 28, 2015	Methods For Supporting Multiple Operators In A Wireless Basestation
U.S. Patent Application No. 13/492,896 (19USPT)	Filed June 10, 2012	Systems And Methods For Enhancing Spectral Efficiency In A Communication Network
U.S. Patent Application No. 15/208,094 (19USC2)	Filed July 12, 2016	Systems And Methods For Enhancing Spectral Efficiency In A Communication Network

PATENT / APPLICATION NO. (ATTORNEY DOCKET NO.)	FILING / GRANT DATE	TITLE
U.S. Patent Application No. 15/287,984 (19USC3)	Filed October 7, 2016	Systems And Methods For Enhancing Spectral Efficiency In A Communication Network
U.S. Patent Application No. 13/235,576 (20USPT)	September 19, 2011	Architecture, Devices And Methods For Allocating Radio Resources In A Wireless System
U.S. Patent No. 9,113,354 (U.S. Patent Application No. 13/290,100) (21USPT)	Granted August 18, 2015	Shared Backhaul Link For Multiple Wireless Systems
U.S. Patent No. 9,167,474 (U.S. Patent Application No. 13/290,102) (22USPT)	Granted October 20, 2015	Sharing Of Radio Resources Between A Backhaul Link And A Radio Access Network
U.S. Patent No. 7,460,839 (U.S. Patent Application No. 10/893,821) (23USPT)	Granted December 2, 2008	Non-Simultaneous Frequency Diversity In Radio Communication Systems