

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4275514

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

**CONVEYING PARTY DATA**

Name	Execution Date
STRAIGHT PATH COMMUNICATIONS INC.	02/06/2017
DIPCHIP CORP.	02/06/2017
STRAIGHT PATH IP GROUP, INC.	02/06/2017
STRAIGHT PATH SPECTRUM, INC.	02/06/2017
STRAIGHT PATH ADVANCED COMMUNICATION SERVICES, LLC	02/06/2017
STRAIGHT PATH SPECTRUM, LLC	02/06/2017
STRAIGHT PATH VENTURES, LLC	02/06/2017

**RECEIVING PARTY DATA**

<b>Name:</b>	CLUTTERBUCK CAPITAL MANAGEMENT, LLC
<b>Street Address:</b>	1360 EAST NINTH STREET, SUITE 1250
<b>City:</b>	CLEVELAND
<b>State/Country:</b>	OHIO
<b>Postal Code:</b>	44114

**PROPERTY NUMBERS Total: 38**

Property Type	Number
Patent Number:	6009469
Patent Number:	6108704
Patent Number:	6131121
Patent Number:	6178453
Patent Number:	6185184
Patent Number:	6226678
Patent Number:	6513066
Patent Number:	6687738
Patent Number:	6701365
Patent Number:	6829645
Patent Number:	7149208
Patent Number:	6847317
Patent Number:	7436329
Patent Number:	7525463

PATENT

Property Type	Number
Patent Number:	7679649
Patent Number:	7844122
Patent Number:	8279098
Patent Number:	8849964
Patent Number:	8896652
Patent Number:	8896717
Patent Number:	8947271
Patent Number:	9225760
Application Number:	11820478
Application Number:	12700719
Application Number:	12710357
Application Number:	12765789
Application Number:	12800140
Application Number:	12806055
Application Number:	12955549
Application Number:	13454071
Application Number:	13526511
Application Number:	13571341
Application Number:	14339625
Application Number:	14462607
Application Number:	14463695
Application Number:	14609884
Application Number:	15291616
Application Number:	62377941

**CORRESPONDENCE DATA**

**Fax Number:** (800)494-7512

*Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.*

**Phone:** 202-370-4750

**Email:** ipteam@nationalcorp.com

**Correspondent Name:** DARLENA BARI STARK

**Address Line 1:** 1025 VERMONT AVE NW, SUITE 1130

**Address Line 2:** NATIONAL CORPORATE RESEARCH, LTD.

**Address Line 4:** WASHINGTON, D.C. 20005

<b>ATTORNEY DOCKET NUMBER:</b>	F168400
<b>NAME OF SUBMITTER:</b>	RACHEL ANN SABATO
<b>SIGNATURE:</b>	/Rachel Ann Sabato/
<b>DATE SIGNED:</b>	02/15/2017

**Total Attachments: 12**

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## INTELLECTUAL PROPERTY SECURITY AGREEMENT

THIS INTELLECTUAL PROPERTY SECURITY AGREEMENT ("Agreement"), dated as of February 6, 2017, is executed by Straight Path Communications Inc., a Delaware corporation ("SPCI"), Dipchip Corp., a New York corporation ("Dipchip"), Straight Path IP Group, Inc., a Delaware corporation ("SPIG"), Straight Path Spectrum, Inc., a Delaware corporation ("SPS"), Straight Path Advanced Communication Services, LLC, a Delaware limited liability company ("SPACS"), Straight Path Spectrum, LLC, a Delaware limited liability company ("SPS LLC"), Straight Path Ventures, LLC, a Delaware limited liability company ("SPV"), (SPCI, Dipchip, SPIG, SPS, SPACS, SPS LLC, SPV, together with their permitted successors and assigns, the "Company"), in favor of each Lender named on the signature page hereto, (collectively and together with their successors and assigns, the "Secured Parties").

### Recitals

A. Reference is made to the Security Agreement, dated as of the date hereof (as amended, restated modified or otherwise supplemented from time to time, the "Security Agreement"), executed by Company in favor of Secured Parties;

B. Company owns the patents, and/or applications for patent, of the United States, more particularly described on Schedule A annexed hereto as part hereof (collectively, the "Patents");

C. Company has adopted, used and is using the trademarks, more particularly described on Schedule B annexed hereto as part hereof, which trademarks are registered or subject to an application for registration in the United States Patent and Trademark Office (collectively, the "Trademarks");

D. Company owns the copyrights registered in the United States Copyright Office, more particularly described on Schedule C annexed hereto as part hereof (collectively, the "Copyrights");

E. Schedule A, Schedule B, and Schedule C hereof constitute a complete list, as of the date hereof, of registrations or applications for registrations of Patents, Trademarks and Copyrights in or to which Company has any right, title, interest, claim or demand. After the date of the Security Agreement, the terms and provisions of which are hereby incorporated herein as if fully set forth herein, Company shall provide written notice to Secured Parties, in accordance with the provisions of the Security Agreement, of any addition or change which is necessary to be made to Schedule A, Schedule B, and/or Schedule C in order to maintain such schedules completeness or accuracy.

### Agreement

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, Company does hereby further grant to Secured Parties a security interest in the Collateral to secure the prompt payment, performance and observance of the Obligations.

1. Company hereby grants to Secured Party a security interest to secure the prompt payment, performance and observance of the Obligations, as defined in the Security Agreement, in all right, title and interest of Company in and to the following property (collectively, the "Collateral");

a. all Patents, together with any reissue, continuation, continuation-in-part or extension thereof, and all proceeds thereof, including any and all causes of action which may exist by reason of infringement thereof for the full term of the Patents, provided that Company may sell, lease, transfer, license

or otherwise dispose of any of the Collateral in connection with settlement of litigation where Company is the plaintiff;

b. all Trademarks, together with the goodwill of the business symbolized by the Trademarks and the customer lists and records related to the Trademarks and the applications and registrations thereof, and all proceeds thereof, including any and all causes of action which may exist by reason of infringement thereof;

c. all Copyrights and the registrations thereof, together with any renewals or extensions thereof, and all proceeds thereof, including any and all causes of action which may exist by reason of infringement thereof for the full term of the Copyrights


2. Company does hereby further acknowledge and affirm that the rights and remedies of Secured Parties with respect to the security interest in the Collateral granted hereby are more fully set forth in the Security Agreement.

Secured Parties' addresses are: Clutterbuck Capital Management, LLC  
1360 East Ninth Street, Suite 1250  
Cleveland, OH 44114


*[REMAINDER OF PAGE INTENTIONALLY LEFT BLANK]*

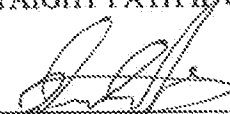
IN WITNESS WHEREOF, Company has caused this Agreement to be executed as of the day and year first above written.

STRAIGHT PATH COMMUNICATIONS INC.


By:   
Name: DAVIDI JONAS  
Title: CEO  
Address: 5300 Hickory Park Drive, Suite  
218  
Glen Allen, Virginia, 23059

DIPCHIP CORP.

By:   
Name: DAVIDI JONAS  
Title: CEO  
Address 5300 HICKORY PARK DR, Ste 218  
GLEN ALLEN, VA 23059  
STAIGHT PATH IP GROUP, INC.

By:   
Name: DAVIDI JONAS  
Title: CEO  
Address 5300 HICKORY PK Drive, Ste 218  
GLEN ALLEN, VA 23059

STRAIGHT PATH SPECTRUM, INC.

By:   
Name: DAVIDI JONAS  
Title: CEO  
Address 5300 HICKORY BK DR, Ste 218  
GLEN ALLEN, VA 23059

STRAIGHT PATH ADVANCED  
COMMUNICATIONS SERVICES, LLC

By: 

Name: DAVIDI JONAS

Title: CEO

Address 5300 HICKORY PARK DR, STE 218  
GLEN ALLEN, VA 23059

STRAIGHT PATH SPECTRUM, LLC

By: 

Name: DAVIDI JONAS

Title: CEO

Address 5300 HICKORY PARK DR, STE 218  
GLEN ALLEN, VA 23059

STRAIGHT PATH VENTURES, LLC

By: 

Name: DAVIDI JONAS

Title: CEO

Address 5300 HICKORY PK DR, STE 218  
GLEN ALLEN, VA 23059

**SCHEDULE A****PATENTS****Owned by Straight Path IP Group, Inc.**

<u>Title</u>	<u>Date Issued</u>	<u>Patent No.</u>
GRAPHIC USER INTERFACE FOR INTERNET TELEPHONY APPLICATION	12/28/1999	6,009,469
POINT-TO-POINT INTERNET PROTOCOL	8/22/2000	6,108,704
POINT-TO-POINT COMPUTER NETWORK COMMUNICATION UTILITY UTILIZING DYNAMICALLY ASSIGNED NETWORK PROTOCOL ADDRESSES	10/10/2000	6,131,121
VIRTUAL CIRCUIT SWITCHING ARCHITECTURE	1/23/2001	6,178,453
DIRECTORY SERVER FOR PROVIDING DYNAMICALLY ASSIGNED NETWORK PROTOCOL ADDRESSES	2/6/2001	6,185,184
METHOD AND APPARATUS FOR DYNAMICALLY DEFINING DATA COMMUNICATION UTILITIES	5/1/2001	6,226,678
ESTABLISHING A POINT-TO-POINT INTERNET COMMUNICATION	1/28/2003	6,513,066
ESTABLISHING AN INTERNET TELEPHONE CALL USING E-MAIL	2/3/2004	6,687,738
POINT-TO-POINT INTERNET PROTOCOL	3/2/2004	6,701,365
METHOD AND APPARATUS FOR ESTABLISHING POINT-TO-POINT COMMUNICATIONS OVER A COMPUTER NETWORK	12/7/2004	6,829,645
METHOD AND APPARATUS FOR PROVIDING CALLER IDENTIFICATION BASED RESPONSES IN A COMPUTER TELEPHONY ENVIRONMENT	12/12/2006	7,149,208
SYSTEM AND METHOD FOR A DYADIC-MONOTONIC CODEC	1/25/2005	6,847,317
MULTIPLE TECHNIQUE ENTROPY CODING SYSTEM AND METHOD	10/14/2008	7,436,329



COMPRESSION RATE CONTROL SYSTEM AND METHOD WITH VARIABLE SUB BAND PROCESSING	4/28/2009	7,525,463
METHODS FOR DEPLOYING VIDEO MONITORING APPLICATIONS AND SERVICES ACROSS HETEROGENEOUS NETWORKS	3/16/2010	7,679,649
CHROMA TEMPORAL RATE REDUCTION AND HIGH-QUALITY PAUSE SYSTEM AND METHOD	11/30/2010	7,844,122
COMPRESSION RATE CONTROL SYSTEM AND METHOD WITH VARIABLE SUB BAND PROCESSING	10/2/2012	8,279,098
MOBILE IMAGING APPLICATION, DEVICE ARCHITECTURE AND SERVICES	9/30/2014	8,849,964
SYSTEM & METHOD FOR REAL-TIME VIDEO COMMUNICATIONS	11/25/2014	8,896,652
METHODS FOR DEPLOYING VIDEO MONITORING APPLICATIONS AND SERVICES ACROSS HETEROGENEOUS NETWORKS	11/25/2014	8,896,717
MULTIPLE TECHNIQUE ENTROPY CODING SYSTEM AND METHOD	2/3/2015	8,947,271
SYSTEM, METHOD AND APPARATUS OF VIDEO PROCESSING AND APPLICATIONS	12/29/2015	9,225,760

### FOREIGN PATENTS

Owned by Straight Path IP Group, Inc.

<u>Country</u>	<u>Title</u>	<u>Date Issued</u>	<u>Patent No.</u>
Australia	Point to Point Protocol	4/1/01	727702
Australia	Point to Point Protocol	12/4/03	764583
Australia	Point to Point Protocol	12/4/03	764521
Australia	Point to Point Protocol	12/4/03	764522
Canada	Point to Point Protocol	1/28/03	2231127
China	Point to Point Protocol	5/27/03	96197195-9
Finland	Point to Point Protocol	4/14/04	852868

France	Point to Point Protocol	4/14/04	852868
Germany	Point to Point Protocol	4/14/04	852868
Hong Kong	Point to Point Protocol	9/11/03	HK1017192
Italy	Point to Point Protocol	4/14/04	852868
Korea	Point to Point Protocol	12/24/03	414512
Mexico	Point to Point Protocol	12/6/02	212126
Singapore	Point to Point Protocol	2/28/05	51774
Sweden	Point to Point Protocol	4/14/04	852868
Taiwan	Point to Point Protocol	10/12/16	NI-096566

**PATENT APPLICATIONS**

**Owned by Straight Path IP Group, Inc.**

<u>Title</u>	<u>Date</u>	<u>Application No.</u>
SYSTEM, METHOD AND APPARATUS OF VIDEO PROCESSING AND APPLICATIONS	6/18/2007	11/820,478
VIDEO PROCESSING SYSTEMS, METHODS AND APPARATUS	2/4/2010	12/700,719
METHODS FOR DEPLOYING VIDEO MONITORING APPLICATIONS AND SERVICES ACROSS HETEROGENEOUS NETWORKS	2/22/2010	12/710,357
VIDEO PROCESSING SYSTEM AND METHOD FOR PARALLEL PROCESSORS	4/22/2010	12/765,789
VARIABLE SHARPNESS OPTICAL SYSTEM FOR SUB-SAMPLED IMAGE CAPTURE	5/6/2010	12/800,140
SYSTEM FOR COMPUTATIONALLY CONSTRAINED TWO-WAY REAL-TIME VIDEO COMMUNICATION AND METRICS SYSTEM FOR THE SAME	8/3/2010	12/806,055
CHROMA TEMPORAL RATE REDUCTION AND HIGH-QUALITY PAUSE SYSTEM AND METHOD	11/29/2010	12/955,549

SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR IMAGE AND VIDEO TRANSCODING	4/23/2012	13/454,071
WAVELET TRANSFORM SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT	6/18/2012	13/526,511
SYSTEM & METHOD FOR NETWORK-ADAPTIVE QUALITY OF EXPERIENCE (QOE) MANAGEMENT IN REAL-TIME VIDEO COMMUNICATIONS	8/9/2012	13/571,341
MOBILE IMAGING APPLICATION, DEVICE ARCHITECTURE AND SERVICES	7/24/2014	14/339,625
METHODS FOR DEPLOYING VIDEO MONITORING APPLICATIONS AND SERVICES ACROSS HETEROGENEOUS NETWORKS	8/19/2014	14/462,607
SYSTEM & METHOD FOR REAL-TIME VIDEO COMMUNICATIONS	8/20/2014	14/463,695
MULTIPLE TECHNIQUE ENTROPY CODING SYSTEM AND METHOD	1/30/2015	14/609,884

**PATENT APPLICATIONS**

**Owned by Straight Path Ventures, LLC**

<u>Title</u>	<u>Date</u>	<u>Application No.</u>
APPARATUS AND METHODS FOR SIGNAL SENSING-BASED RF UNIT CONTROL	10/12/2016	15/291,616
METHODS AND APPARATUS FOR FIXED BROADBAND COMMUNICATION AND BACKHAUL ACCESS WITH LARGE NUMBER OF ANTENNAS	8/22/2016	62/377,941

**SCHEDULE B**

**TRADEMARKS**

**Owned by Straight Path Spectrum, Inc.**

<u>Mark</u>	<u>Registration Date</u>	<u>Registration No.</u>
STRAIGHT PATH	Issued: 07/29/2014	Reg: 4,549,150 Ser: 85/970,392
STRAIGHT PATH (& Design)	Issued: 07/29/2014	Reg: 4,534,923 Ser: 86/050,451

**TRADEMARK APPLICATIONS**

**Owned by Straight Path Spectrum, Inc.**

<u>Mark</u>	<u>Application Date</u>	<u>Application No.</u>
5G TO THE HOME (1B)	Filed Aug. 10, 2016	Ser. No. 87/133928
5GTTH (1B)	Filed Aug. 10, 2016	Ser. No. 87/133962
FIXED 5G (1B)	Filed Aug. 10, 2016	Ser. No. 87/133945

GIGABIT MOBILITY (1B) Filed Nov.17, 2015 Ser. No. 86/822,671

GIGARAY (1B) Filed: Apr. 13, 2016 Ser. No. 86/974605

GIGARRAY (1B) Filed: Apr. 13, 2016 Ser. No. 86/974611

STRAIGHT PATH  
MOBILE (1B) Filed Aug. 10, 2016 Ser. No. 87/134006

STRAIGHT PATH  
MOBILITY (1B) Filed Aug. 10, 2016 Ser. No. 87/134025

STRAIGHT PATH  
VENTURES (1B) Filed Aug. 10, 2016 Ser. No. 87/134050

STRAIGHT PATH  
SPECTRUM Filed Aug. 10, 2016 Ser. No. 87/134089

SCHEDULE C

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Description

Registration Date

Registration No.

NONE