

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5690345

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the PATENTS AS LISTED ON THE AGREEMENT previously recorded on Reel 046901 Frame 0009. Assignor(s) hereby confirms the U.S. PATENT NO. 9,264,555 SHOULD BE REMOVED.

CONVEYING PARTY DATA

Name	Execution Date
ATC TECHNOLOGIES, LLC	09/14/2018

RECEIVING PARTY DATA

Name:	CREDIT SUISSE AG, CAYMAN ISLANDS BRANCH
Street Address:	ELEVEN MADISON AVENUE
City:	NEW YORK
State/Country:	NEW YORK
Postal Code:	10010

PROPERTY NUMBERS Total: 11

Property Type	Number
Patent Number:	9161312
Application Number:	12720189
Patent Number:	9820276
Patent Number:	9271296
Patent Number:	9461806
Application Number:	15589512
Application Number:	15998431
Application Number:	16117901
Application Number:	62564643
Application Number:	62585927
Application Number:	62592887

CORRESPONDENCE DATA

Fax Number: (414)277-0656

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.

Email: dcipdocket@michaelbest.com

Correspondent Name: KEVIN BARNER

Address Line 1: 1000 MAINE AVENUE, S.W.

Address Line 2: SUITE 400

PATENT

Address Line 4:	WASHINGTON, D.C. 20024
ATTORNEY DOCKET NUMBER:	210638-0001
NAME OF SUBMITTER:	KEVIN M. BARNER/NNC
SIGNATURE:	/Kevin M. Barner/
DATE SIGNED:	08/28/2019

Total Attachments: 9
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source=26481709_210638-0001_-_Request_for_Corrected_NOR_documents_-_agreement_executed_9-14-18#page8.t
source=26481709_210638-0001_-_Request_for_Corrected_NOR_documents_-_agreement_executed_9-14-18#page9.t

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT5146401

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY INTEREST
CONVEYING PARTY DATA	
Name	Execution Date
ATC TECHNOLOGIES, LLC	09/14/2018
RECEIVING PARTY DATA	
Name:	CREDIT SUISSE AG, CAYMAN ISLANDS BRANCH
Street Address:	ELEVEN MADISON AVENUE
City:	NEW YORK
State/Country:	NEW YORK
Postal Code:	10010
PROPERTY NUMBERS Total: 12	
Property Type	Number
Patent Number:	9820276
Patent Number:	9161312
Patent Number:	9271296
Patent Number:	9461806
Patent Number:	9264555
Application Number:	12720189
Application Number:	15589512
Application Number:	16117901
Application Number:	62564643
Application Number:	62585927
Application Number:	62592887
Application Number:	15998431
CORRESPONDENCE DATA	
Fax Number:	
<i>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.</i>	
Email:	mkeipdocket@michaelbest.com
Correspondent Name:	KEVIN BARNER
Address Line 1:	601 PENNSYLVANIA AVENUE NW
Address Line 2:	SUITE 700 SOUTH
Address Line 4:	WASHINGTON, D.C. 20004

PATENT

COVER LETTER

Attached is a corrected Patent Security Agreement dated September 14, 2018 removing an erroneous entry to Schedule I.

Dated: 8/28/19

A handwritten signature in black ink, appearing to read "Kevin Barner", written over a horizontal line.

Kevin Barner, Reg. No. 46075

PATENT SECURITY AGREEMENT

Patent Security Agreement, dated as of September 14, 2018, by ATC TECHNOLOGIES, LLC (the "Pledgor"), in favor of CREDIT SUISSE AG, CAYMAN ISLANDS BRANCH, in its capacity as Collateral Agent under the Security Agreement referred to below (in such capacity, the "Collateral Agent").

WITNESSETH:

WHEREAS, the Pledgor is a party to a U.S. Security Agreement dated as of December 7, 2015 (as amended, amended and restated, supplemented or otherwise modified from time to time, the "Security Agreement") in favor of the Collateral Agent pursuant to which the Pledgor is required to execute and deliver this Patent Security Agreement;

NOW, THEREFORE, in consideration of the premises and as consideration for the Loans previously made, the Pledgor hereby agrees with the Collateral Agent as follows:

SECTION 1. Defined Terms. Unless otherwise defined herein, terms defined in the Security Agreement and used herein have the meaning given to them in the Security Agreement or the Credit Agreement referred to in the Security Agreement.

SECTION 2. Grant of Security Interest in Patent Collateral. The Pledgor hereby pledges and grants to the Collateral Agent for the benefit of the Secured Parties a lien on and security interest in and to all of its right, title and interest in, to and under all the following Pledged Collateral of the Pledgor:

- (a) Patents of the Pledgor listed on Schedule I attached hereto; and
- (b) all Proceeds of any and all of the foregoing (other than Excluded Property).

SECTION 3. Security Agreement. The security interest granted pursuant to this Patent Security Agreement is granted in conjunction with the security interest granted to the Collateral Agent pursuant to the Security Agreement and the Pledgor hereby acknowledges and affirms that the rights and remedies of the Collateral Agent with respect to the security interest in the Patents made and granted hereby are more fully set forth in the Security Agreement, the terms and provisions of which are incorporated by reference herein as if fully set forth herein. In the event that any provision of this Patent Security Agreement is deemed to conflict with the Security Agreement, the provisions of the Security Agreement shall control unless the Collateral Agent shall otherwise determine.

SECTION 4. Termination. Upon the payment in full of the Secured Obligations and termination of the Security Agreement, the Collateral Agent shall execute, acknowledge, and deliver to the Pledgor an instrument in writing in recordable form releasing the collateral pledge, grant, assignment, lien and security interest in the Patents under this Patent Security Agreement.

SECTION 5. Counterparts. This Patent Security Agreement may be executed in any number of counterparts, all of which shall constitute one and the same instrument, and any

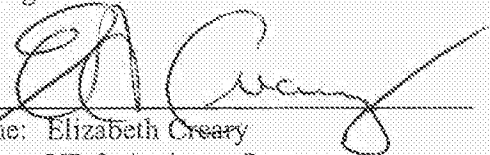
party hereto may execute this Patent Security Agreement by signing and delivering one or more counterparts.

[Signature page follows]

IN WITNESS WHEREOF, the Pledgor has caused this Patent Security Agreement to be executed and delivered by its duly authorized officer as of the date first set forth above.

Very truly yours,

ATC TECHNOLOGIES, LLC,
as the Pledgor

By: 
Name: Elizabeth Creary
Title: VP & Assistant Secretary

Accepted and Agreed:

CREDIT SUISSE AG, CAYMAN ISLANDS BRANCH,
as Collateral Agent

By: _____
Name:
Title:

IN WITNESS WHEREOF, the Pledgor has caused this Patent Security Agreement to be executed and delivered by its duly authorized officer as of the date first set forth above.

Very truly yours,

ATC TECHNOLOGIES, LLC,
as the Pledgor

By: _____
Name: Elizabeth Creary
Title: VP & Assistant Secretary

Accepted and Agreed:

CREDIT SUISSE AG, CAYMAN ISLANDS BRANCH,
as Collateral Agent

By: _____
Name: Bryan J. Matthews
Title: Authorized Signatory

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Didier Siffer
Authorized Signatory

SCHEDULE I
to
PATENT SECURITY AGREEMENT
PATENT REGISTRATIONS AND PATENT APPLICATIONS

UNITED STATES PATENTS:

Title	Owner	Patent No.	Issue Date
Wireless networks, devices and methods that establish asymmetric frequency division duplex (FDD) links using a downlink frequency carrier and multiple uplink frequency carriers	ATC Technologies, LLC	9820276	11/14/2017
Power mode control for a communication device	ATC Technologies, LLC	9161312	10/13/2015
Methods and devices for allocating resource blocks in an LTE network	ATC Technologies, LLC	9271296	02/23/2016
Providing different transmit and/or receive modes in different sectors of a wireless base station	ATC Technologies, LLC	9461806	10/04/2016
Charging information transfer in the IMS	ATC Technologies, LLC	9264555	02/16/2016

KMB

UNITED STATES PATENT APPLICATIONS:

Title	Owner	Application No.	Filing Date
FREQUENCY DIVISION DUPLEX (FDD) RETURN LINK TRANSMIT DIVERSITY SYSTEMS, METHODS AND DEVICES USING FORWARD LINK SIDE INFORMATION	ATC Technologies, LLC	12/720189	03/09/2010
SAME CHANNEL REPEATER FOR SATELLITE AND TERRESTRIAL LINKS	ATC Technologies, LLC	15/589512	05/08/2017
Multipath TCP over Dual Networks	ATC Technologies, LLC	15/998,431	8/16/2018
Dynamic Speed Control	ATC Technologies, LLC	16/117901	8/30/2018
Systems and Methods for Locating and Resolving Base Station Interference with a Third-party Communication Device	ATC Technologies, LLC	62/564,643	9/28/2017
Localized Content Delivery Platform	ATC Technologies, LLC	62/585,927	11/14/2017
Wireless Communication System and Code-division Multiple Access and Interference Avoidance	ATC Technologies, LLC	62/592,887	11/30/2017