

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| ILYA ZISKIND | 02/04/2019 |
| DAVID NANCE | 02/04/2019 |
| RECEIVING PARTY DATA | |
| Name: | ATC TECHNOLOGIES, LLC |
| Street Address: | 10802 PARKRIDGE BOULEVARD |
| City: | RESTON |
| State/Country: | VIRGINIA |
| Postal Code: | 20191 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 16264004 |
| 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: | BRIAN MARSTALL |
| Address Line 1: | 1000 MAINE AVENUE SW |
| Address Line 2: | SUITE 400 |
| Address Line 4: | WASHINGTON, D.C. 20024 |
| ATTORNEY DOCKET NUMBER: | 210638-9202-US02 |
| NAME OF SUBMITTER: | BRIAN MARSTALL |
| SIGNATURE: | /brian marstall/ |
| DATE SIGNED: | 02/12/2019 |
| Total Attachments: 4 | |
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| source=25191053_210638-9202-US02-Assignment_Recorded#page4.tif | |

ASSIGNMENT

Pursuant to our obligation to LIGADO NETWORKS LLC, of which ATC TECHNOLOGIES, LLC is a wholly owned subsidiary and a Virginia corporation having its principal place of business at:

10802 Parkridge Boulevard
Reston, VA 20191
USA

(hereinafter referred to as "**Assignee**") and for other valuable and sufficient consideration, receipt whereof is hereby acknowledged, we:

Ilya Ziskind
108 N. College Drive
Sterling, VA 20164

David Nance
121 N. Sterling Blvd.,
Sterling, VA 20164 USA

(hereinafter referred to as "**Assignors**") confirm our obligation to and hereby irrevocably sell, assign and convey unto Assignee, and its successors and assigns, all of our entire worldwide right, title and interest, free and clear of all liens, encumbrances or other obligations:

(1) in and to the inventions and subject matter described, depicted, claimed, or otherwise disclosed (hereinafter "the Inventions") in the patent application titled "**APPLICATION SERVICE VIRTUAL CIRCUIT**" for which Assignors filed United States Patent Application No. 16/264,004 (Atty. File No. 210638-9202-US02) on JANUARY 31, 2019 (hereinafter "the U.S. patent application");

(2) in and to any prior filed U.S. provisional application or any other prior filed domestic or foreign patent application, based upon or otherwise relating to the inventions or to which the U.S. patent application claims priority;

(3) in and to the U.S. patent application and all other patent applications now or hereafter filed in the United States of America (including, without limitation, any non-provisional, divisional, continuation, continuation-in-part, reexamination, and reissue applications) based upon or otherwise relating to the Inventions or based upon, relating to, or claiming the benefit of or priority to the U.S. patent application or any other patent application assigned under this Assignment, including all rights of priority based on such applications, and any and all patent or patents granted thereon, to the full end of the term or terms for which said patent or patents may be granted;

(4) in and to all patent applications or other applications of any kind or nature relating to the protection of intellectual and industrial property rights, now or hereafter filed in countries foreign to the United States of America, based upon or otherwise relating to the Inventions or based upon, relating to, or claiming the benefit of or priority to the U.S. patent application or any other patent application assigned under this Assignment (Assignors agree that any such patent applications may be filed in the name of Assignee), including all rights of priority based on such applications, and any and all patents granted thereon, to the full end of the terms for which said patents may be granted;

(5) in and to all patent applications or other applications of any kind or nature relating to the protection of intellectual and industrial property rights now or hereafter filed under the Paris Convention for the Protection Of Industrial Property, the Patent Cooperation Treaty, and all other international conventions, agreements, treaties or laws relating to the protection of intellectual and industrial property based upon or otherwise relating to the Inventions or based upon, relating to, or claiming the benefit of priority to the U.S. patent application or any other patent application assigned under this Assignment (and Assignors agree that any such patent applications may be filed in the name of Assignee), including all rights of priority based on such applications, and any and all patents granted thereon, to the full end of the terms for which said patents may be granted;

(6) in and to all rights of any kind whatsoever of Assignors accruing before, on, or after the dates of execution below under any of the foregoing provisions provided by applicable law of any jurisdiction, by international treaties and conventions, and otherwise throughout the world;

(7) any and all royalties, fees, income, payments and other proceeds now or hereafter due or payable with respect to any and all of the foregoing; and

(8) any and all claims and causes of action, with respect to any of the foregoing, whether accruing before, on and/or after the dates of execution below, including all rights to and claims for damages, restitution and injunctive and other legal and equitable relief for past, present and future infringement, misappropriation, violation, misuse, breach or default, with the right but no obligation to sue for such legal and equitable relief and to collect, or otherwise recover, any such damages.

The patents, patent applications, and any other applications of any kind or nature relating to the protection of intellectual and industrial property rights assigned under this Assignment are to be held and enjoyed by Assignee for its own use and benefit and for its successors, assigns and legal representatives, to the full end of the terms for which the assigned patents may be granted as fully and entirely as the same would have been held by Assignors had this assignment not been made, together with all rights of action accrued, accruing and to accrue under and by virtue hereof, including all right to sue or otherwise recover for past and future infringement and

to receive all damages, payments, costs, and fees associated therewith. Assignors hereby acknowledge and agree that this assignment of all of Assignors' entire right, title and interest in and to the assigned Inventions, patents, patent applications, and any other applications of any kind or nature relating to the protection of intellectual and industrial property rights carries with it the right for Assignee to choose its own attorneys and agents in all countries throughout the world to prepare, file, and prosecute all patent applications assigned under this Assignment and to procure the grant of, maintain, and enforce all assigned patents and other rights under this Assignment.

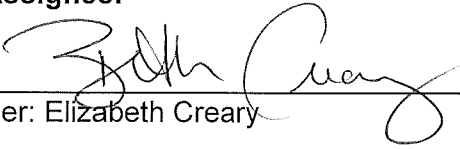
Assignors hereby agree, at Assignee's expense, that Assignors will, upon demand of Assignee, its successors, assigns, or legal representatives, and without further consideration to Assignors: (i) execute any and all papers and do all other lawful acts that may be deemed necessary by Assignee, its successors, assigns, or legal representatives, to complete fulfillment of the intent and purposes of this Assignment in any country throughout the world, including, without limitation, the execution of any further assignments, other documents, and any and all provisional, non-provisional, substitution, continuation, divisional, reissue, reexamination, extensions, or corresponding United States, foreign or international patent applications, and (ii) provide documents, statements or testimony and do all other lawful acts that may be deemed necessary by Assignee, its successors, assigns or legal representatives in any interference, litigation, or other legal, administrative or governmental proceeding to enforce or otherwise protect the intellectual and industrial property rights assigned under this Assignment in any country throughout the world in which the assigned Inventions, patents and patent applications may be involved.

Assignors hereby authorize and request the Commissioner of the United States Patent and Trademark Office and the appropriate official of any foreign patent or intellectual property office to issue all patents as shall be granted upon the assigned patent applications to Assignee, its successors, assigns, or legal representatives.

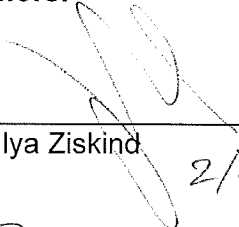
This Assignment and any claim, controversy, dispute or cause of action (whether in contract, tort or otherwise) based upon, arising out of or relating to this Assignment and the transactions contemplated hereby shall be governed by, and construed in accordance with, the laws of the United States and the State of Illinois, without giving effect to any choice or conflict of law provision or rule (whether of the State of Illinois or any other jurisdiction).

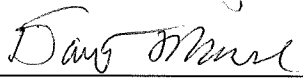
IN WITNESS WHEREOF, Assignee and the Assignors have hereunto set their hands as of the dates written below.

Assignee:


Per: Elizabeth Creary
Title: VP, Assistant General Counsel
Date: Feb. 11/19

Assignors:


Per: Ilya Ziskind
Date: 2/4/2019


Per: David Nance
Date: 2/4/2019