

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4177633

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|-------------------------|----------------|
| DALE N. SEED | 03/30/2016 |
| WILLIAM ROBERT FLYNN IV | 03/30/2016 |
| PAUL L. RUSSELL JR | 04/20/2016 |
| NARAYAN P. MENON | 03/21/2016 |
| RICHARD P. GORMAN | 03/30/2016 |
| QUANG LY | 03/30/2016 |
| HONGKUN LI | 04/14/2016 |
| DONALD A. FLECK | 03/30/2016 |
| ZHUO CHEN | 04/14/2016 |
| MICHAEL F. STARSINIC | 03/30/2016 |
| THOMAS S. GILLEY | 06/23/2016 |
| DAVID GOEHRIG | 04/04/2016 |

RECEIVING PARTY DATA

| | |
|--------------------------|-----------------------|
| Name: | CONVIDA WIRELESS, LLC |
| Street Address: | 200 BELLEVUE PARKWAY |
| Internal Address: | SUITE 300 |
| City: | WILMINGTON |
| State/Country: | DELAWARE |
| Postal Code: | 19809 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|----------------------------|----------|
| Application Number: | 15048506 |

CORRESPONDENCE DATA

Fax Number: (215)538-3439

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: 2155683100

Email: assignments@bakerlaw.com

Correspondent Name: BAKER & HOSTETLER LLP

Address Line 1: 2929 ARCH STREET

PATENT

| | |
|------------------------|----------------------------------|
| Address Line 2: | CIRA CENTER, 12TH FLOOR |
| Address Line 4: | PHILADELPHIA, PENNSYLVANIA 19104 |

| | |
|--------------------------------|---------------------------|
| ATTORNEY DOCKET NUMBER: | 101859000351/CNV12294US02 |
|--------------------------------|---------------------------|

| | |
|---------------------------|----------------|
| NAME OF SUBMITTER: | MARYANN DEVINE |
|---------------------------|----------------|

| | |
|-------------------|------------------|
| SIGNATURE: | /MARYANN DEVINE/ |
|-------------------|------------------|

| | |
|---------------------|------------|
| DATE SIGNED: | 12/09/2016 |
|---------------------|------------|

Total Attachments: 15

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ASSIGNMENT

WHEREAS:

- | | |
|--|---|
| 1. Dale N. Seed 229 N. 36 th Street Allentown, PA 18104 | 7. Hongkun Li 107 Forge Court Malvern, PA 19355 |
| 2. William Robert Flynn IV 451 Mayberry Road Schwenksville, PA 19473 | 8. Donald A. Fleck 870 Frank Drive Emmaus, PA 18049 |
| 3. Paul L. Russell, Jr. 8 Michael Way Pennington, NJ 08534 | 9. Zhuo Chen 1397 Parish Avenue Claymont, DE 19703 |
| 4. Narayan P. Menon 28 Devine Avenue Syosset, NY 11791 | 10. Michael F. Starsinic 190 Andrew Drive Newtown, PA 18940 |
| 5. Richard P. Gorman 150 Grasshopper Drive Ivyland, PA 18974 | 11. Thomas S. Gilley 140 West 85 th Street, #9C New York, NY 10019 |
| 6. Quang Ly 115 Sterling Drive North Wales, PA 19454 | 12. David Goehrig 527 Auburn Avenue Buffalo, NY 14222 |

hereinafter referred to as the ASSIGNORS, are joint inventors of certain inventions or improvements for which we have made application for Letters Patent to the United States, identified as Application No. 15/048,506, filed February 19, 2016, entitled MESSAGE BUS SERVICE DIRECTORY and

WHEREAS, Convida Wireless, LLC, hereinafter referred to as the ASSIGNEE, of 200 Bellevue Parkway, Suite 300, Wilmington, Delaware 19809-3727, a corporation of Delaware, is desirous of acquiring the entire right, title and interest in and to said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, and intending to be legally bound hereby, we, the said ASSIGNORS, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over to said ASSIGNEE, our entire right, title and interest in and to said application and any and all continuations, divisions and renewals of and substitutes for said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of said Letters Patent, including our full right to sue for and collect damages for past violations of provisional rights having arisen from any publication of said application or any continuations, divisions, or renewals of or substitutes for said application (hereinafter collectively "PATENT RIGHTS"). We further assign to and authorize said ASSIGNEE, to file in our names applications for PATENT RIGHTS in all countries, the same to be held and enjoyed by said ASSIGNEE, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said PATENT RIGHTS respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

AND we hereby covenant that we have full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith, and we further covenant and agree that we will each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said PATENT RIGHTS to said ASSIGNEE, its successors, assigns, nominees, or legal representatives, and each of us agrees to communicate to said ASSIGNEE or to its nominee all known facts respecting said PATENT RIGHTS, to testify in any legal proceedings, to sign all lawful papers to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally to do everything possible to aid said ASSIGNEE, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit proper protection for said PATENT RIGHTS in any and all countries.

AND we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to said ASSIGNEE, as ASSIGNEE of the entire right, title and interest in said PATENT RIGHTS, any and all Letters Patent for said PATENT RIGHTS, including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

AND this Assignment may be executed in multiple counterparts, each of which shall be deemed to be an original of this Assignment. Additionally, we hereby authorize our attorneys to collect the signature pages of each executed counterpart and to attach those signature pages to a single copy of this instrument, which single copy and attached signature pages together shall constitute an original of this Assignment.

DOCKET NO.: 101859.000351/CNV12294US02

IN WITNESS WHEREOF, we have hereunto set our hands and seals.

DOCKET NO.: 101859.000351/CNV12294US02

30 Mar 2016
Date

Dale N. Seed
Dale N. Seed

SIGNED at 781 Third Ave, King of Prussia, PA 19406 USA
(City and State or Country)

STATEMENT OF WITNESS: I, Amy L. Hidak
Name of Witness

whose full address is: 781 Third Ave, King of Prussia, PA 19406 USA
Address of Witness

was personally present and did see Dale N. Seed execute this assignment on the 30th day of March, 2016, and such assignor is personally known to me to be the person described herein.

Amy L. Hidak
Signature of Witness

DOCKET NO.: 101859.000351/CNV12294US02

30 Mar 2016
Date

William R. Flynn IV
William Robert Flynn IV

SIGNED at 781 Third Ave, King of Prussia, PA 19406 USA
(City and State or Country)

STATEMENT OF WITNESS: I, Amy L. Hudak
Name of Witness

whose full address is: 781 Third Ave, King of Prussia, PA 19406 USA
Address of Witness

was personally present and did see William Robert Flynn IV execute this assignment on the
30th day of March, 2016, and such assignor is personally known to me to be the
person described herein.

Amy L. Hudak
Signature of Witness

DOCKET NO.: 101859.000351/CNVI2294US02

20 April 2016
Date Paul L. Russell, Jr.

SIGNED at 1001 E. Hector Street, Ste. 300, Conshohocken, PA 19428 USA
(City and State or Country)

STATEMENT OF WITNESS: I, William MacRae
Name of Witness

whose full address is: 1001 E. Hector Street, Ste. 300, Conshohocken, PA 19428 USA
Address of Witness

was personally present and did see Paul L. Russell, Jr. execute this assignment on the 20th
day of April, 2016, and such assignor is personally known to me to be the person
described herein.

William MacRae
Signature of Witness

DOCKET NO.: 101859.000351/CNV12294US02

Date 3/21/16 N P
Narayan P. Menon

SIGNED at Melville NY USA
(City and State or Country)

STATEMENT OF WITNESS: I, BRIDGET LETREN
Name of Witness
2 Huntington Quadrangle, 4th Fl/South Wing
Melville, NY 11747 USA
whose full address is:
Address of Witness

was personally present and did see Narayan P. Menon execute this assignment on the 21
day of MARCH, 2016, and such assignor is personally known to me to be the person
described herein.

Bridget Letren
Signature of Witness

DOCKET NO.: 101859.000351/CNVI2294US02

30 Mar 2016
Date

Richard P. Gorman
Richard P. Gorman

SIGNED at 781 Third Ave, King of Prussia, PA 19406 USA
(City and State or Country)

STATEMENT OF WITNESS: I, Henry L. Hudak
Name of Witness

whose full address is: 781 Third Ave, King of Prussia, PA 19406 USA
Address of Witness

was personally present and did see Richard P. Gorman execute this assignment on the 30th
day of March, 2016, and such assignor is personally known to me to be the person
described herein.

Henry L. Hudak
Signature of Witness

DOCKET NO.: 101859.000351/CNV12294US02

30 Mar 2016
Date

Quang Ly
Quang Ly

SIGNED at 781 Third Ave, King of Prussia, PA 19406 USA
(City and State or Country)

STATEMENT OF WITNESS: I, Amy L. Hudek
Name of Witness

whose full address is: 781 Third Ave, King of Prussia, PA 19406 USA
Address of Witness

was personally present and did see Quang Ly execute this assignment on the 30th day of March, 2016, and such assignor is personally known to me to be the person described herein.

Amy L. Hudek
Signature of Witness

DOCKET NO.: 101859.000351/CNV12294US02

14 April 2016 Hongkun Li
Date **Hongkun Li**

SIGNED at Crashhocken Pa USA
(City and State or Country)

STATEMENT OF WITNESS: I, Amy L Hudak
Name of Witness

whose full address is: 1001 E. Hector St, Crashhocken Pa 19428
Address of Witness

was personally present and did see **Hongkun Li** execute this assignment on the 14th day of April, 2016, and such assignor is personally known to me to be the person described herein.

Amy L Hudak
Signature of Witness

DOCKET NO.: 101859.000351/CNV12294US02

30 Mar 2016
Date

Donald A. Fleck
Donald A. Fleck

SIGNED at 781 Third Ave, King of Prussia, PA 19406 USA
(City and State or Country)

STATEMENT OF WITNESS: I, Amy L. Hudak
Name of Witness

whose full address is: 781 Third Ave, King of Prussia, PA 19406 USA
Address of Witness

was personally present and did see Donald A. Fleck execute this assignment on the 30th day
of March, 2016, and such assignor is personally known to me to be the person
described herein.

Amy L. Hudak
Signature of Witness

DOCKET NO.: 101859.000351/CNV12294US02

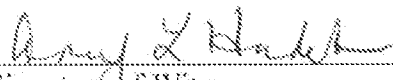
14 April 2016
Date 
Zhuo Chen

SIGNED at Conshohocken, PA USA
(City and State or Country)

STATEMENT OF WITNESS: I, Amy L. Hudek
Name of Witness

whose full address is: 1001 E. Hecht St, Conshohocken, PA 19380
Address of Witness

was personally present and did see Zhuo Chen execute this assignment on the 14th day of April, 2016, and such assignor is personally known to me to be the person described herein.


Signature of Witness

DOCKET NO.: 101859.000351/CNVI2294US02

30 Mar 2016
Date Michael F. Starsinic

SIGNED at 781 Third Ave, King of Prussia, PA 19406 USA
(City and State or Country)

STATEMENT OF WITNESS: I, Amy C. Stahl
Name of Witness

whose full address is: 781 Third Ave, King of Prussia, PA 19406 USA
Address of Witness

was personally present and did see **Michael F. Starsinic** execute this assignment on the 30th
day of March, 2016, and such assignor is personally known to me to be the person
described herein.

Amy C. Stahl
Signature of Witness

DOCKET NO.: 101859.000351/CNV12294US02

Date 6/23/16 [Signature]
Thomas S. Gilley

SIGNED at

NEW YORK NEW YORK
(City and State or Country)

STATEMENT OF WITNESS: I, Ken Forster
Name of Witness

whose full address is:

Zugspitze 80, Unterageri, Switzerland
Address of Witness

was personally present and did see Thomas S. Gilley execute this assignment on the 23 day
of June, 2016, and such assignor is personally known to me to be the person
described herein.

[Signature]
Signature of Witness

4/4/2016 David Goehrig
Date Signature

SIGNED at Buffalo NY
(City and State or Country)

STATEMENT OF WITNESS: I, TARA MANCINI
Name of Witness

whose full address is: 527 Auburn Ave Buffalo NY 14222
Address of Witness

was personally present and did see David Goehrig execute this assignment on the 4 day of April, 2016, and such assignor is personally known to me to be the person described herein.

Tara Mancini
Signature of Witness