

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4161254

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|---|----------------------------|
| <b>SUBMISSION TYPE:</b>   | NEW ASSIGNMENT             |
| <b>NATURE OF CONVEYANCE:</b>  | ASSIGNMENT                 |
| <b>CONVEYING PARTY DATA</b>   |                            |
| <b>Name</b>   | <b>Execution Date</b>      |
| CHENHUI LIU   | 11/07/2016                 |
| FREDERICK PETER MIKKELSEN   | 08/03/2016                 |
| ALBERTO GUTIERREZ JR.   | 10/04/2016                 |
| <b>RECEIVING PARTY DATA</b>   |                            |
| <b>Name:</b>  | CARRIER IQ, INC.           |
| <b>Street Address:</b>  | 640 W. CALIFORNIA AVENUE   |
| <b>Internal Address:</b>  | SUITE 100                  |
| <b>City:</b>  | SUNNYVALE                  |
| <b>State/Country:</b>   | CALIFORNIA                 |
| <b>Postal Code:</b>   | 94086                      |
| <b>PROPERTY NUMBERS Total: 1</b>  |                            |
| <b>Property Type</b>  | <b>Number</b>              |
| <b>Application Number:</b>  | 14565294                   |
| <b>CORRESPONDENCE DATA</b>  |                            |
| <b>Fax Number:</b>  | (801)328-1707              |
| <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> |                            |
| <b>Phone:</b>   | 801-533-9800               |
| <b>Email:</b>   | vso@wnlaw.com              |
| <b>Correspondent Name:</b>  | WORKMAN NYDEGGER           |
| <b>Address Line 1:</b>  | 60 EAST SOUTH TEMPLE       |
| <b>Address Line 2:</b>  | SUITE 1000                 |
| <b>Address Line 4:</b>  | SALT LAKE CITY, UTAH 84111 |
| <b>ATTORNEY DOCKET NUMBER:</b>  | CRIQ022 CIP; 20769.48.1    |
| <b>NAME OF SUBMITTER:</b>   | PETER F. MALEN JR.         |
| <b>SIGNATURE:</b>   | /Peter F. Malen Jr./       |
| <b>DATE SIGNED:</b>   | 11/29/2016                 |
| <b>Total Attachments: 6</b>   |                            |
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| source=20769-48-1_Assignment_Inventors_to_CarrierIQ#page2.tif   |                            |

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Workman | Nydegger  
60 East South Temple  
Suite 1000  
Salt Lake City, Utah 84111

PATENT APPLICATION  
Docket No: CRIQ022 CIP; 20769.48.1

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ASSIGNMENT

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I/We the under signed, hereinafter collectively referred to as "Assignor," are the inventors of an invention entitled CLOSED-LOOP SELF-CARE APPARATUS AND MESSAGING SYSTEM FOR CUSTOMER CARE OF WIRELESS SERVICES. Example embodiments of said invention are disclosed in a United States patent application which:

☒ is executed concurrently herewith for filing in the United States Patent and Trademark Office or was previously filed in the United States Patent and Trademark Office on December 9, 2014, Application Serial No. 14/565,294. (I hereby authorize the attorneys of Workman Nydegger to insert said serial number and filing date when known.)

☐ is a United States National Application of PCT International Application No. \_\_\_\_\_, filed \_\_\_\_\_.

The Assignee, CARRIER IQ, INC, a corporation of the state of Delaware, having a principal place of business at 640 W. CALIFORNIA AVENUE, SUITE 100, SUNNYVALE, CALIFORNIA 94086, desires to secure the entire right, title and interest in said invention and the patent application filed thereon.

In consideration of One Dollar (\$1.00) and other good and valuable consideration paid to Assignor by the Assignee, the receipt and sufficiency of which is hereby acknowledge, ASSIGNOR HEREBY ASSIGNS TO THE ASSIGNEE:

The entire right, title and interest in said invention and in the above-identified United States patent application and in all divisions, continuations and continuations-in-part of said application, or reissues or extensions of Letters Patent or Patents granted thereon, and in all corresponding applications filed in countries foreign to the United States, and in all patents issuing thereon in the United States and foreign countries.

The right to file foreign patent applications on said invention in its own name, wherever such right may be legally exercised, including the right to claim the benefits of the International Convention for such applications.

Assignor hereby authorizes and requests the United States Commissioner of Patents and Trademarks, and such Patent Office officials in foreign countries as are duly authorized by their patent laws to issue patents, to issue any and all patents on said invention to the Assignee as the owner of the entire interest, for the sole use and behoof of the said Assignee, its successors, assigns and legal representatives.

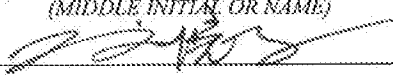
Assignor hereby agrees, without further consideration and without expense to Assignor, to sign all lawful papers and to perform all other lawful acts which the Assignee may request of Assignor to make this Assignment fully effective, including, by way of example but not of limitation, the following:

Prompt execution of all original, divisional, substitute, reissue, and other United States and foreign patent applications on said invention, and all lawful documents requested by the Assignee to further the prosecution of any of such patent applications.

Cooperation to the best of our ability in the execution of all lawful documents, the production of evidence, nullification, reissue, extension, or infringement proceedings involving said invention.

This assignment and agreement shall be binding upon Assignor's heirs and legal representatives.

Full name of first joint inventor

|   |  |  |
|---|--|--|
| <u>Chenhui</u><br><small>(GIVEN NAME)</small>   | <u></u><br><small>(MIDDLE INITIAL OR NAME)</small> | <u>Liu</u><br><small>FAMILY (OR LAST NAME)</small> |
| Inventor's signature <u></u> |  |  |
| Date <u>11/7/2016</u>   | Country of Citizenship <u>USA</u>                  |  |
| Address <u>3 Loew Circle, Milton, MA 02186</u>  |  |  |

Workman Nydegger  
60 East South Temple  
Suite 1000  
Salt Lake City, Utah 84111

PATENT APPLICATION  
Docket No: CRIQ022 CIP; 20769.48.1

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ASSIGNMENT

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Cooperation to the best of our ability in the execution of all lawful documents, the production of evidence, nullification, reissue, extension, or infringement proceedings involving said invention.

This assignment and agreement shall be binding upon Assignor's heirs and legal representatives.

Full name of second joint inventor

|  |                          |                            |
|--|--------------------------|----------------------------|
| Frederick  | Peter                    | Mikkelsen                  |
| (GIVEN NAME)   | (MIDDLE INITIAL OR NAME) | FAMILY (OR LAST NAME)      |
| Inventor's signature <u>Frederick P. Mikkelsen</u>     |                          |                            |
| Date   | August 3, 2016           | Country of Citizenship USA |
| Address <u>29 Scarlett St, West Boylston, MA 01583</u> |                          |                            |

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60 East South Temple  
Suite 1000  
Salt Lake City, Utah 84111

PATENT APPLICATION  
Docket No: CRIQ022 CIP; 20769.48.1

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A S S I G N M E N T

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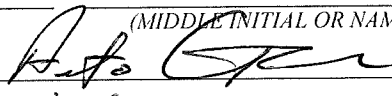
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Cooperation to the best of our ability in the execution of all lawful documents, the production of evidence, nullification, reissue, extension, or infringement proceedings involving said invention.

This assignment and agreement shall be binding upon Assignor's heirs and legal representatives.

Full name of third joint inventor

|   |                          |                                   |
|---|--------------------------|-----------------------------------|
| Alberto   |                          | Gutierrez, Jr.                    |
| (GIVEN NAME)  | (MIDDLE INITIAL OR NAME) | FAMILY (OR LAST NAME)             |
| Inventor's signature <u></u> |                          |                                   |
| Date  | <u>Oct 4, 2016</u>       | Country of Citizenship <u>USA</u> |
| Address <u>3405 Leafwood Court, San Mateo, CA 94403</u>   |                          |                                   |