

## PATENT ASSIGNMENT

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| SUBMISSION TYPE:   | NEW ASSIGNMENT      |               |                     |                 |                   |               |            |                      |             |              |       |
|--|---------------------|---------------|---------------------|-----------------|-------------------|---------------|------------|----------------------|-------------|--------------|-------|
| NATURE OF CONVEYANCE:  | ASSIGNMENT          |               |                     |                 |                   |               |            |                      |             |              |       |
| CONVEYING PARTY DATA   |                     |               |                     |                 |                   |               |            |                      |             |              |       |
| <table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Yinshan Feng</td> <td>11/13/2012</td> </tr> <tr> <td>Parmesh Verma</td> <td>11/13/2012</td> </tr> <tr> <td>Mary Teresa Lombardo</td> <td>11/13/2012</td> </tr> </tbody> </table>   |                     | Name          | Execution Date      | Yinshan Feng    | 11/13/2012        | Parmesh Verma | 11/13/2012 | Mary Teresa Lombardo | 11/13/2012  |              |       |
| Name   | Execution Date      |               |                     |                 |                   |               |            |                      |             |              |       |
| Yinshan Feng   | 11/13/2012          |               |                     |                 |                   |               |            |                      |             |              |       |
| Parmesh Verma  | 11/13/2012          |               |                     |                 |                   |               |            |                      |             |              |       |
| Mary Teresa Lombardo   | 11/13/2012          |               |                     |                 |                   |               |            |                      |             |              |       |
| RECEIVING PARTY DATA   |                     |               |                     |                 |                   |               |            |                      |             |              |       |
| <table border="1"> <tr> <td>Name:</td> <td>Carrier Corporation</td> </tr> <tr> <td>Street Address:</td> <td>One Carrier Place</td> </tr> <tr> <td>City:</td> <td>Farmington</td> </tr> <tr> <td>State/Country:</td> <td>CONNECTICUT</td> </tr> <tr> <td>Postal Code:</td> <td>06034</td> </tr> </table>                                      |                     | Name:         | Carrier Corporation | Street Address: | One Carrier Place | City:         | Farmington | State/Country:       | CONNECTICUT | Postal Code: | 06034 |
| Name:  | Carrier Corporation |               |                     |                 |                   |               |            |                      |             |              |       |
| Street Address:  | One Carrier Place   |               |                     |                 |                   |               |            |                      |             |              |       |
| City:  | Farmington          |               |                     |                 |                   |               |            |                      |             |              |       |
| State/Country:   | CONNECTICUT         |               |                     |                 |                   |               |            |                      |             |              |       |
| Postal Code:   | 06034               |               |                     |                 |                   |               |            |                      |             |              |       |
| PROPERTY NUMBERS Total: 1  |                     |               |                     |                 |                   |               |            |                      |             |              |       |
| <table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>PCT Number:</td> <td>US2013056449</td> </tr> </tbody> </table>  |                     | Property Type | Number              | PCT Number:     | US2013056449      |               |            |                      |             |              |       |
| Property Type  | Number              |               |                     |                 |                   |               |            |                      |             |              |       |
| PCT Number:  | US2013056449        |               |                     |                 |                   |               |            |                      |             |              |       |
| CORRESPONDENCE DATA  |                     |               |                     |                 |                   |               |            |                      |             |              |       |
| Fax Number: 2485242700<br><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i><br>Phone: 860-286-2929<br>Email: usptopatentmail@cantorcolburn.com<br>Correspondent Name: Cantor Colburn LLP<br>Address Line 1: 20 Church Street<br>Address Line 2: 22nd Floor<br>Address Line 4: Hartford, CONNECTICUT 06103 |                     |               |                     |                 |                   |               |            |                      |             |              |       |
| ATTORNEY DOCKET NUMBER:  | PA-0014974-WO       |               |                     |                 |                   |               |            |                      |             |              |       |
| NAME OF SUBMITTER:   | Paul L. Marshall    |               |                     |                 |                   |               |            |                      |             |              |       |
| Signature:   | /Paul Marshall/     |               |                     |                 |                   |               |            |                      |             |              |       |

Date:

10/01/2013

**Total Attachments: 4**

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## ASSIGNMENT

We, **Yinshan Feng** residing in South Windsor, Connecticut with a Business Address of 411 Silver Lane, East Hartford in the State of **Connecticut**; **Parmesh Verma** residing in Manchester, Connecticut with a Business Address of 411 Silver Lane, East Hartford in the State of **Connecticut**; and **Mary Teresa Lombardo** residing in Windsor, Connecticut with a Business Address of One Carrier Place, Farmington in the State of **Connecticut**; has/have invented certain improvements in a **METHOD OF DETERMINING CONCENTRATIONS OF GAS MIXTURES**, and described in US Patent Application Serial No. 61/718,446, filed October 25, 2012, and International Application Docket No. PA-0014974, executed on even date herewith and listing as inventors: **Yinshan Feng, Parmesh Verma and Mary Teresa Lombardo** (hereinafter the Application(s)) and for which International Application we authorize insertion post-execution here in parentheses

( PCT/US2013/056449 filed August 23, 2013 ) the international filing date and International Application number when known.

At the time of the invention of the improvements, said improvements were assigned to or under obligation of assignment to **Carrier Corporation** (hereinafter Assignee) of a Delaware, U.S.A. corporation, having a place of business at One Carrier Place, Farmington, Connecticut, United States of America 06034.

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged by the undersigned, the undersigned have sold, assigned, transferred and set over and by these presents do hereby sell, assign, transfer and set over unto Assignee, its successors and assigns, our entire right, title and interest in and to:

said invention or inventions as described in the Application(s), in all forms and embodiments thereof and in all countries and other jurisdictions;

the Application(s) and all applications filed in all countries and jurisdictions based thereon or otherwise for said invention or inventions, including direct or indirect nonprovisional of, divisional, continuation, continuation-in-part, or substitute applications, and including the right to file all said applications under the provisions of the Paris Convention for the Protection of Industrial Property, Patent Cooperation Treaty or other international convention or agreement;

all patents and reissues, reexaminations, or extensions thereof to be obtained in all countries and jurisdictions upon said invention or inventions or from all said applications; and

to all such rights relating to prior infringements, retroactive or past royalties, provisional rights, and other retroactive or past relief or compensation.


The undersigned hereby authorize and request the issuing authorities in all countries and jurisdictions to issue all patents on all said applications to Assignee or its successors and assigns.

The undersigned further agree, without any further payment or compensation by Assignee or its successors and assigns, to communicate to Assignee, its successors and assigns and to their representatives and agents, all facts relating to said invention or inventions including evidence for interference purposes or for other legal proceedings whenever requested; testify in all interference or other legal proceedings, whenever requested; execute and deliver, on request, all lawful papers required to make all of the foregoing provisions effective; and generally do everything possible to aid Assignee, its successors or assigns and nominees to obtain and enforce proper patent protection for said invention or inventions in all countries and jurisdictions.

IN TESTIMONY WHEREOF, the undersigned have-hereunto set their hand and seal on the date after their signature.

(L.S.)   
**YINSHAN FENG**

11/13/2012  
Date

(L.S.)   
**PARMESH VERMA**

11.13.12.  
Date

(L.S.) \_\_\_\_\_  
**MARY TERESA LOMBARDO**

\_\_\_\_\_  
Date

## ASSIGNMENT

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(L.S.) \_\_\_\_\_  
YINSHAN FENG

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Date

(L.S.) \_\_\_\_\_  
PARMESH VERMA

\_\_\_\_\_  
Date

(L.S.)   
MARY TERESA LOMBARDO

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Date