

## PATENT ASSIGNMENT COVER SHEET

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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>SHERIF KANDIL</td> <td>02/28/2013</td> </tr> <tr> <td>ZIDU MA</td> <td>02/28/2013</td> </tr> <tr> <td>RAJIV RANJAN</td> <td>02/28/2013</td> </tr> <tr> <td>GARY D. WINCH</td> <td>02/28/2013</td> </tr> </tbody> </table>		Name	Execution Date	SHERIF KANDIL	02/28/2013	ZIDU MA	02/28/2013	RAJIV RANJAN	02/28/2013	GARY D. WINCH	02/28/2013
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RECEIVING PARTY DATA											
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>Application Number:</td> <td>14185078</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14185078						
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Application Number:	14185078										
CORRESPONDENCE DATA											
Fax Number:	(860)286-0115										
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NAME OF SUBMITTER:	ALICIA HAYTER										

Signature:	/Alicia Hayter/
Date:	02/20/2014
Total Attachments: 4 source=70E9663#page1.tif source=70E9663#page2.tif source=70E9663#page3.tif source=70E9663#page4.tif	

## ASSIGNMENT

We, Sherif Kandil residing in Ellington, CT with a Business Address of 411 Silver Lane, East Hartford, CT 06108 in the State of CT, Zidu Ma residing in Ellington, CT with a Business Address of One Carrier Place, Farmington, CT 06032 in the State of CT, Rajiv Ranjan residing in Vernon, CT with a Business Address of 411 Silver Lane, East Hartford, CT 06108 in the State of CT, and Gary D. Winch residing in Colchester, CT with a Business Address of 411 Silver Lane, East Hartford, CT 06108 in the State of CT; have invented certain improvements in a "REGENERATION AIR MIXING FOR A MEMBRANE BASED HYGROSCOPIC MATERIAL DEHUMIDIFICATION SYSTEM", and described in US Patent Application Serial No. 61/769,474, filed February 26, 2013, and International Application Docket No PA-0019809, executed on even date herewith and listing as inventors: Sherif Kandil, Zidu Ma, Rajiv Ranjan, and Gary D. Winch, (hereinafter the Application(s)) and for which International Application we authorize insertion post-execution here in parentheses ( \_\_\_\_\_ ) 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 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.) \_\_\_\_\_  
Sherif Kandil

\_\_\_\_\_  
Date

(L.S.)   
Zidu Ma

2/28/2013  
\_\_\_\_\_  
Date

(L.S.) \_\_\_\_\_  
Rajiv Ranjan

\_\_\_\_\_  
Date

(L.S.) \_\_\_\_\_  
Gary D. Winch

\_\_\_\_\_  
Date

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all patents and reissues, reexaminations, or extensions thereof to be obtained in all

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countries and jurisdictions upon said invention or inventions or from all said applications;  
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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  
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(L.S.) Sherif Kandil  
Sherif Kandil

02/28/2013  
Date

(L.S.) \_\_\_\_\_  
Zidu Ma

\_\_\_\_\_  
Date

(L.S.) Rajiv Ranjan  
Rajiv Ranjan

02/28/2013  
Date

(L.S.) Gary D. Winch  
Gary D. Winch

02/28/2013  
Date