

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5257974

<b>SUBMISSION TYPE:</b>	CORRECTIVE ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	Corrective Assignment to correct the ASSIGNEE STREET ADDRESS previously recorded on Reel 047385 Frame 0733. Assignor(s) hereby confirms the ASSIGNEE STREET ADDRESS IS ONE CARRIER PLACE.
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JEREMY WALLET-LAILY	06/03/2016
CHARBEL RAHHAL	06/03/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	CARRIER CORPORATION
<b>Street Address:</b>	ONE CARRIER PLACE
<b>City:</b>	FARMINGTON
<b>State/Country:</b>	CONNECTICUT
<b>Postal Code:</b>	06032
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16098312
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(860)286-0115
<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>	86028602929
<b>Email:</b>	usptopatentmail@cantorcolburn.com
<b>Correspondent Name:</b>	CANTOR COLBURN LLP
<b>Address Line 1:</b>	20 CHURCH STREET, 22ND FLOOR
<b>Address Line 4:</b>	HARTFORD, CONNECTICUT 06103
<b>ATTORNEY DOCKET NUMBER:</b>	93108US01 (U301967US)
<b>NAME OF SUBMITTER:</b>	DAVID A. FOX
<b>SIGNATURE:</b>	/David A. Fox/
<b>DATE SIGNED:</b>	11/29/2018
<b>Total Attachments: 6</b>	
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## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT5217997

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JEREMY WALLET-LAILY	06/03/2016
CHARBEL RAHHAL	06/03/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	CARRIER CORPORATION
<b>Street Address:</b>	ONE
<b>City:</b>	FARMINGTON
<b>State/Country:</b>	CONNECTICUT
<b>Postal Code:</b>	06032
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16098312
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(860)286-0115
<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>	8602862929
<b>Email:</b>	usptopatentmail@cantorcolburn.com
<b>Correspondent Name:</b>	CANTOR COLBURN LLP - CARRIER
<b>Address Line 1:</b>	20 CHURCH STREET, 22ND FLOOR
<b>Address Line 4:</b>	HARTFORD, CONNECTICUT 06103
<b>ATTORNEY DOCKET NUMBER:</b>	93108US01 (U301967US)
<b>NAME OF SUBMITTER:</b>	DAVID A. FOX
<b>SIGNATURE:</b>	/David A. Fox/
<b>DATE SIGNED:</b>	11/01/2018
<b>Total Attachments: 4</b>	
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**UNITED STATES PATENT AND TRADEMARK OFFICE**

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

NOVEMBER 2, 2018

PTAS

CANTOR COLBURN LLP - CARRIER  
20 CHURCH STREET, 22ND FLOOR  
HARTFORD, CT 06103

**505171229**

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT RECORDATION BRANCH OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE ASSIGNMENT RECORDATION BRANCH AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT RECORDATION BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 11/01/2018

REEL/FRAME: 047385/0733  
NUMBER OF PAGES: 5

BRIEF: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: 93108US01 (U301967US)

ASSIGNOR:

WALLET-LAILY, JEREMY

DOC DATE: 06/03/2016

ASSIGNOR:

RAHHAL, CHARBEL

DOC DATE: 06/03/2016

ASSIGNEE:

CARRIER CORPORATION  
ONE  
FARMINGTON, CONNECTICUT 06032

APPLICATION NUMBER: 16098312

FILING DATE:

PATENT NUMBER:

ISSUE DATE:

TITLE: HEAT EXCHANGER ARRANGEMENT

ASSIGNMENT RECORDATION BRANCH  
PUBLIC RECORDS DIVISION

## ASSIGNMENT

WHEREAS I **Jeremy WALLET-LAILY** of c/o Carrier SCS, Route de Thil, 01120 Montluel, France have invented certain improvements in

### **Heat Exchanger Arrangement**

identified as Attorney Docket No. **93108WO01 (K 87 160/8)** and described in a patent application as further identified hereinbelow, and

WHEREAS, **Carrier Corporation**, a Delaware, U.S.A. corporation, having a place of business at **One Carrier Place, Farmington, Connecticut, United States of America 06032** (hereinafter Assignee) is desirous of acquiring the entire worldwide right, title and interest in and to said invention or inventions and any and all patents, utility models, design patents or other industrial property rights to be obtained therefore;

NOW, THEREFORE, in consideration of inventor compensation determined and paid in accordance with the United Technologies Building & Industrial Systems Employee Inventor Compensation Award Policy, the undersigned does hereby sell, assign, transfer and set over unto Assignee, its successors and assigns, to the extent owned or assignable by the undersigned, all right, title and interest in and to:

- said invention or inventions, as described in the aforesaid patent application, in any form or embodiment thereof, and in and to the aforesaid application;
- any application filed in any country, jurisdiction or other authority based thereon, including direct or indirect nonprovisional, divisional, continuation-in-part or substitute applications, and including the right to file said applications under the provisions of the Paris Convention for the Protection of Industrial Property, the Patent Corporation Treaty or other international convention or agreement;
- any and all patents or reissues or extensions thereof to be obtained in any country, jurisdiction or other authority which may be filed upon said invention or inventions in any country or other authority;
- all such rights relating to prior infringements, retroactive or past royalties, provisional rights, and other retroactive or past relief or compensation.

The undersigned hereby authorizes and requests the issuing authority to issue any and all patents on said application or applications to Assignee or its successors and assigns.

The undersigned further agrees, to communicate to Assignee, its representatives or agents or its successors and assigns, any facts relating to said invention or inventions including evidence for interference purposes or for other legal proceedings whenever requested; testify in any interference or other legal proceedings, whenever requested; execute and deliver, on request, all lawful papers required to make any 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 any country.

The undersigned hereby authorizes the Assignee to insert the application number and filing date of the above-noted international patent application into the following spaces, when known:

Application No.: PCT/EP2016/059884  
Country or Receiving Office: EP  
Filing Date: May 3, 2016  
Inventors: Jeremy WALLET-LAILY and Charbel RAHHAL

IN TESTIMONY WHEREOF, the undersigned has hereunto set her/his hand and seal on the date after her/his signature.

  
.....  
Jeremy WALLET-LAILY

Date: 03/05/2016

## ASSIGNMENT

WHEREAS I **Charbel RAHHAL** of c/o Carrier SCS, Route de Thil, 01120 Montluel, France have invented certain improvements in

### **Heat Exchanger Arrangement**

identified as Attorney Docket No. **93108WO01 (K 87 160/8)** and described in a patent application as further identified hereinbelow, and

WHEREAS, **Carrier Corporation**, a Delaware, U.S.A. corporation, having a place of business at **One Carrier Place, Farmington, Connecticut, United States of America 06032** (hereinafter Assignee) is desirous of acquiring the entire worldwide right, title and interest in and to said invention or inventions and any and all patents, utility models, design patents or other industrial property rights to be obtained therefore;

NOW, THEREFORE, in consideration of inventor compensation determined and paid in accordance with the United Technologies Building & Industrial Systems Employee Inventor Compensation Award Policy, the undersigned does hereby sell, assign, transfer and set over unto Assignee, its successors and assigns, to the extent owned or assignable by the undersigned, all right, title and interest in and to:

- said invention or inventions, as described in the aforesaid patent application, in any form or embodiment thereof, and in and to the aforesaid application;
- any application filed in any country, jurisdiction or other authority based thereon, including direct or indirect nonprovisional, divisional, continuation-in-part or substitute applications, and including the right to file said applications under the provisions of the Paris Convention for the Protection of Industrial Property, the Patent Corporation Treaty or other international convention or agreement;
- any and all patents or reissues or extensions thereof to be obtained in any country, jurisdiction or other authority which may be filed upon said invention or inventions in any country or other authority;
- all such rights relating to prior infringements, retroactive or past royalties, provisional rights, and other retroactive or past relief or compensation.

The undersigned hereby authorizes and requests the issuing authority to issue any and all patents on said application or applications to Assignee or its successors and assigns.

The undersigned further agrees, to communicate to Assignee, its representatives or agents or its successors and assigns, any facts relating to said invention or inventions including evidence for interference purposes or for other legal proceedings whenever requested; testify in any interference or other legal proceedings, whenever requested; execute and deliver, on request, all lawful papers required to make any 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 any country.

The undersigned hereby authorizes the Assignee to insert the application number and filing date of the above-noted international patent application into the following spaces, when known:

Application No.: PCT/EP2016/059884

Country or Receiving Office: EP

Filing Date: May 3, 2016

Inventors: Jeremy WALLET-LAILY and Charbel RAHHAL

IN TESTIMONY WHEREOF, the undersigned has hereunto set her/his hand and seal on the date after her/his signature.

  
\_\_\_\_\_  
Charbel RAHHAL

Date: June 03 2016