

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4367997

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|---|----------------------------|
| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| MATTHEW BIESTERVELD | 04/07/2017 |
| NAGAPPAN CHIDAMBARAM | 04/06/2017 |
| MANOJ KUMAR PULI | 04/13/2017 |
| SCOTT J. DELO | 04/07/2017 |
| RECEIVING PARTY DATA | |
| Name: | TRANE INTERNATIONAL INC. |
| Street Address: | 800-E BEATY STREET |
| City: | DAVIDSON |
| State/Country: | NORTH CAROLINA |
| Postal Code: | 28036 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 15487207 |
| CORRESPONDENCE DATA | |
| Fax Number: | (631)488-0842 |
| <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> | |
| Phone: | 6314880840 |
| Email: | docketing@salernolaw.com |
| Correspondent Name: | THE SALERNO LAW FIRM, P.C. |
| Address Line 1: | 1955 DEER PARK AVENUE |
| Address Line 4: | DEER PARK, NEW YORK 11729 |
| ATTORNEY DOCKET NUMBER: | 32932US02 (INGE-082) |
| NAME OF SUBMITTER: | RUSSELL S. SALERNO |
| SIGNATURE: | /Russell S. Salerno/ |
| DATE SIGNED: | 04/13/2017 |
| Total Attachments: 5 | |
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PATENT

REEL: 042005 FRAME: 0160

ASSIGNMENT

WHEREAS, we, Matthew Biesterveld, of Holmen, WI; Nagappan Chidambaram, of West Salem, WI; Manoj Kumar Puli, of Chennai, India; and Scott J. Delo, of Braddock, PA, have made certain new and useful inventions and improvements for which was executed concurrently herewith a U.S. Utility Patent Application, having Attorney Docket No. 32932US02 (INGE-082) and which is entitled HVAC SYSTEM CONFIGURATION AND ZONE MANAGEMENT;

AND WHEREAS, Trane International Inc., a corporation having an office and place of business at 800-E Beatty Street, Davidson, North Carolina, United States of America (hereinafter "Assignee") is desirous of acquiring the entire right, title and interest in and to said inventions, improvements and application and in and to the Letters Patent to be obtained therefor;

NOW THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the aforesaid application, and in and to any applications which have been or shall be filed, including all nonprovisionals, applications filed under the Patent Cooperation Treaty, divisions, continuations, or renewals thereof, all Letters Patent which may be granted therefrom, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted therefrom; and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the Assignee, its successors and assigns;

AND, for the consideration aforesaid, we do hereby agree that we and our executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to us relating to said improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in and to the improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be;

Assignment to Trane International Inc.
Attorney Docket: 32932US02 (INGE-082)
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AND, furthermore we covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us and that full right to convey the same as herein expressed is possessed by each of us.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 7th day of April, 2017.



Inventor: Matthew Biesterveld

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 20____.

Inventor: Nagappan Chidambaram

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 20____.

Inventor: Manoj Kumar Puli

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 20____.

Inventor: Scott J. Delo

* * * * *

AND, furthermore we covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us and that full right to convey the same as herein expressed is possessed by each of us.

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 20____.

Inventor: Matthew Biesterveld

IN TESTIMONY WHEREOF, I have hereunto set my hand this 6th day of APRIL, 2017.

Nagappa

Inventor: Nagappan Chidambaram

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 20____.

Inventor: Manoj Kumar Puli

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 20____.

Inventor: Scott J. Delo

* * * * *

AND, furthermore we covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us and that full right to convey the same as herein expressed is possessed by each of us.

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 20____.

Inventor: Matthew Biesterveld

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 20____.

Inventor: Nagappan Chidambaram

IN TESTIMONY WHEREOF, I have hereunto set my hand this 13th day of APRIL, 2017.

P. Manoj Kumar Puli
Inventor: Manoj Kumar Puli

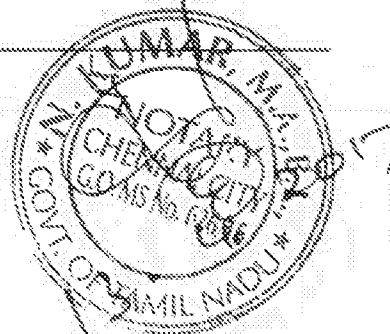
IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 20____.

Inventor: Scott J. Delo

* * * * *

N. KUMAR, M.A., B.L.
ADVOCATE & NOTARY PUBLIC
No. 9/9, 10th LANE,
Adhi Nagarhamman Koll Opp. Street,
INDIRA NAGAR, ADYAR, CHENNAI-20.
CELL : 91764 85890, 80561 98746~

Assignment to Trane International Inc.
Attorney Docket: 32932US02 (INGE-082)
Page 2 of 2



AND, furthermore we covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us and that full right to convey the same as herein expressed is possessed by each of us.

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 20____.

Inventor: Matthew Biesterveld


IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 20____.

Inventor: Nagappan Chidambaram

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 20____.

Inventor: Manoj Kumar Puli

IN TESTIMONY WHEREOF, I have hereunto set my hand this 7th day of April, 2017.



Inventor: Scott J. Delo

* * * * *