PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:NEW ASSIGNMENTNATURE OF CONVEYANCE:ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JASON THOMAS LEROY	04/26/2017
KIRBY N. BICKNELL	04/24/2017
CHRISTOPHER BLAKE SMITH	04/25/2017
JOHN HUGHES	04/25/2017
GREGORY S. BROWN	04/27/2017

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:	15499833

CORRESPONDENCE DATA

Fax Number: (631)488-0842

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.

Phone: 6314880840

Email:docketing@salernolaw.comCorrespondent Name:THE SALERNO LAW FIRM, P.C.Address Line 1:1955 DEER PARK AVENUEAddress Line 4:DEER PARK, NEW YORK 11729

ATTORNEY DOCKET NUMBER: 32261US02 (INGE-046)

NAME OF SUBMITTER: RUSSELL S. SALERNO

SIGNATURE: /Russell S. Salerno/

DATE SIGNED: 04/27/2017

Total Attachments: 5

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ASSIGNMENT

WHEREAS, we, Jason Thomas LeRoy of Tyler, TX; Kirby N. Bicknell of Tyler, TX; Christopher Blake Smith of Whitehouse, TX; John Hughes of Flint, TX; and Gregory S. Brown of Flint, TX, 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. 32261US02 (INGE-046) and which is entitled TIME-CONSTRAINED CONTROL OF AN HVAC SYSTEM;

AND WHEREAS, Trane International Inc., a corporation having an office and place of business at 800-E Beaty 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: 32261US02 (INGE-046) Page 1 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.

Apr:1	IN TESTIMONY WHEREOF, , 20_ \?\? .	I have hereunto set my hand this $\frac{26^{-1}}{4}$ day of	
		Inventor: Jason Thomas LeBoy	
	IN TESTIMONY WHEREOF,	I have hereunto set my hand this day of	
		Inventor: Kirby N. Bicknell	
	IN TESTIMONY WHEREOF,, 20	I have hereunto set my hand this day of	
		Inventor: Christopher Blake Smith	****
	IN TESTIMONY WHEREOF, 20	I have hereunto set my hand this day of	
		Inventor: John Hughes	
	IN TESTIMONY WHEREOF,	I have hereunto set my hand this day of	
		Inventor: Gregory S. Brown	

* * * * *

Assignment to Trane International Inc. Attorney Docket: 32261US02 (INGE-046) Page 2 of 2

•	een made to others by us and that	ther agreement affecting the rights and property herein full right to convey the same as herein expressed is
	IN TESTIMONY WHEREOF, I	have hereunto set my hand this day of
	•	Inventor: Jason Thomas LeRoy
APRIL	IN TESTIMONY WHEREOF, I	have hereunto set my hand this 244 day of
		Inventor: Kirby N. Bicknell
	IN TESTIMONY WHEREOF, I	have hereunto set my hand this day of
		Inventor: Christopher Blake Smith
	IN TESTIMONY WHEREOF, I	have hereunto set my hand this day of
		Inventor: John Hughes
	IN TESTIMONY WHEREOF, I	have hereunto set my hand thisday of
	* * *	Inventor: Gregory S. Brown * * *

AND, furthermore we covenant and agree with said Assignee, its successors and assigns,

Assignment to Trane International Inc. Attorney Docket: 32261US02 (INGE-046) Page 2 of 2

	nt, grant, mortgage, license or other agreement affecting the rights and property herein in made to others by us and that full right to convey the same as herein expressed is no of us.
	N TESTIMONY WHEREOF, I have hereunto set my hand this day of, 20
	Inventor: Jason Thomas LeRoy
	N TESTIMONY WHEREOF, I have hereunto set my hand thisday of, 20
	Inventor: Kirby N. Bicknell
	N TESTIMONY WHEREOF, I have hereunto set my hand this 25 day of, 2017. Linventor: Christopher Blake Smith
April	N TESTIMONY WHEREOF, I have hereunto set my hand this _25 day of, 20] 7. Inventor: John Hughes
n	N TESTIMONY WHEREOF, I have hereunto set my hand this day of, 20
	Inventor: Gregory S. Brown * * * *
	Assignment to Trane International Inc. Attorney Docket: 32261US02 (INGE-046)

Page 2 of 2

AND, furthermore we covenant and agree with said Assignee, its successors and assigns,

at no assignment, grant, mortgage, license or other agreement affecting the rights and property herein inveyed has been made to others by us and that full right to convey the same as herein expressed is assessed by each of us.
IN TESTIMONY WHEREOF, I have hereunto set my hand this day of, 20
Inventor: Jason Thomas LeRoy
IN TESTIMONY WHEREOF, I have hereunto set my hand this day of, 20
Inventor: Kirby N. Bicknell
IN TESTIMONY WHEREOF, I have hereunto set my hand this day of, 20
Inventor: Christopher Blake Smith
IN TESTIMONY WHEREOF, I have flereunto set my hand this day of, 20
Inventor: John Hughes
IN TESTIMONY WHEREOF, I have hereunto set my hand this 3 day of ANIL , 2017. Inventor: Liveyory S. Brown * * * * *
Assignment to Trane International Inc. Attorney Docket: 32261US02 (INGE-046)

Page 2 of 2

RECORDED: 04/27/2017

AND, furthermore we covenant and agree with said Assignee, its successors and assigns,