

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT4558211

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
TIM BRIZENDINE	06/22/2017
JEFF MANGUM	06/22/2017
BRUCE PERKINS	06/22/2017
RECEIVING PARTY DATA	
Name:	LENNOX INDUSTRIES INC.
Street Address:	2100 LAKE PARK BLVD.
City:	RICHARDSON
State/Country:	TEXAS
Postal Code:	75080
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15632035
CORRESPONDENCE DATA	
Fax Number:	(214)545-3473
<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:	(214) 545-3472
Email:	mkraut@fbtlaw.com
Correspondent Name:	CRAIG J. COX
Address Line 1:	100 CRESCENT COURT, SUITE 350
Address Line 4:	DALLAS, TEXAS 75201
ATTORNEY DOCKET NUMBER:	P150112 0648273/21304
NAME OF SUBMITTER:	CRAIG J. COX
SIGNATURE:	/Craig J. Cox/
DATE SIGNED:	08/21/2017
Total Attachments: 4	
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RECORDATION FORM COVER SHEET PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)

Tim Brizendine; Jeff Mangum; Bruce Perkins

Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)

Name: Lennox Industries Inc.

Internal Address: _____

Street Address: 2100 Lake Park Blvd.

City: Richardson

State: TX

Country: US Zip: 75080

Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance/Execution Date(s):

Execution Date(s) 06/22/2017

- Assignment Merger
- Security Agreement Change of Name
- Joint Research Agreement
- Government Interest Assignment
- Executive Order 9424, Confirmatory License
- Other _____

4. Application or patent number(s):

This document serves as an Oath/Declaration (37 CFR 1.63).

A. Patent Application No.(s)

B. Patent No.(s)

15/632,035

Additional numbers attached? Yes No

5. Name and address to whom correspondence concerning document should be mailed:

Name: Craig J. Cox

Internal Address: Frost Brown Todd LLC

Street Address: 100 Crescent Court, Suite 350

City: Dallas

State: TX Zip: 75201

Phone Number: (214) 580-5855

Docket Number: _____

Email Address: Ccox@fbtlaw.com

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 0

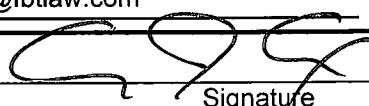
- Authorized to be charged to deposit account
- Enclosed
- None required (government interest not affecting title)

8. Payment Information

Deposit Account Number 062226

Authorized User Name Craig J. Cox

9. Signature:



Signature

August 21, 2017
Date

Craig J. Cox

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

ASSIGNMENT BY INVENTORS

THIS ASSIGNMENT, made by Tim Brizendine, residing at 301 Deaton Dr., Rockwall, Texas 75087; Jeff Mangum, residing at P.O. Box 24, Argyle, Texas 76226; and Bruce Perkins, residing at 1321 Silver Maple Dr., Carrollton, Texas 75007; (hereinafter referred to as Assignors);

WHEREAS, Assignors have invented certain new and useful improvements in "Method for Solving Charge Imbalance in Existing Split Heat Pump," set forth in a Patent application for Letters Patent of the United States, filed June 23, 2017, U.S. Patent Application No. 15/632,035; and

WHEREAS, Lennox Industries Inc., a Corporation organized under and pursuant to the laws of Delaware having its principal place of business at 2100 Lake Park Blvd., Richardson, Texas 75080 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefore and thereon.

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefore and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and assignment not been made.

AND for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the joint and lawful owners of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but

not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

AND Assignors hereby request the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

AND Assignors hereby grant the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document:

Frost Brown Todd LLC

All practitioners at Customer Number 134338

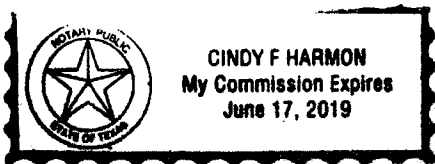
AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

Date: 6/22/17 Signature: *Tim Brizendine*
Tim Brizendine

United States of America)
State of Texas) ss.:
County of Dallas)

On this 22nd day of June, 2017, before me personally came Tim Brizendine, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Cindy F. Harmon
Notary Public
My Commission Expires: June 17, 2019

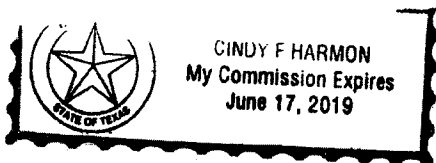


Date: June 22, 2017

Signature: *Jeff Mangum*
Jeff Mangum

United States of America)
State of Texas) ss.:
County of Dallas)

On this 22nd day of June, 2017, before me personally came Jeff Mangum, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



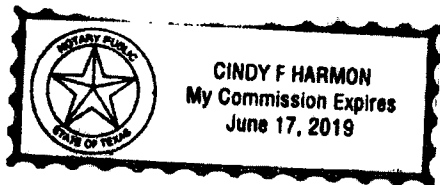
Cindy F Harmon
Notary Public
My Commission Expires: June 17, 2019

Date: JUNE 22, 2017

Signature: *Bruce Perkins*
Bruce Perkins

United States of America)
State of Texas) ss.:
County of Dallas)

On this 22nd day of June, 2017, before me personally came Bruce Perkins, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



Cindy F Harmon
Notary Public
My Commission Expires: June 17, 2019