

<b>PATENT ASSIGNMENT COVER SHEET</b>
--------------------------------------

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4137877

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
PERFORMANCE HEATING AND AIR CONDITIONING, INC.	08/11/2010
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	TRANSFORMATIVE WAVE TECHNOLOGIES LLC
<b>Street Address:</b>	1012 CENTRAL AVE S
<b>City:</b>	KENT
<b>State/Country:</b>	WASHINGTON
<b>Postal Code:</b>	98032
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Patent Number:</b>	9043034
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(206)340-9599
<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>	206.624.8300
<b>Email:</b>	patent@millernash.com
<b>Correspondent Name:</b>	PETRICH / MILLER NASH GRAHAM & DUNN LLP
<b>Address Line 1:</b>	PIER 70, 2801 ALASKAN WAY, SUITE 300
<b>Address Line 4:</b>	SEATTLE, WASHINGTON 98121
<b>ATTORNEY DOCKET NUMBER:</b>	557760-0001-08
<b>NAME OF SUBMITTER:</b>	KATHLEEN T. PETRICH
<b>SIGNATURE:</b>	/Kathleen T. Petrich/
<b>DATE SIGNED:</b>	11/10/2016
<b>Total Attachments: 2</b>	
source=TWT Parent Assignment#page1.tif	
source=TWT Parent Assignment#page2.tif	

## ASSIGNMENT OF INVENTION AND PATENT RIGHTS

WHEREAS the Assignor, Performance Heating and Air Conditioning, Inc., (hereafter referred to as the "Assignor"), is a Washington corporation, having a principal place of business in Kent, Washington;

WHEREAS the Assignor is the owner by assignments recorded August 20, 2009 in the United States Patent and Trademark Office under Reel/Frame No. 023126/0530 and Reel/Frame No. 023126/0484 of U.S. Patent Application Serial No. 12/544,960 for the Invention titled "Energy Reducing Retrofit Method and Apparatus for a Constant Volume HVAC System" (the "Retrofit Patent Application/Invention");

WHEREAS the Assignee Transformative Wave Technologies LLC (hereafter referred to as the "Assignee"), is a Washington limited liability company, having a principal place of business in Redmond, Washington;

WHEREAS the Assignee is desirous in obtaining the entire right, title and interest Assignor has in and to the Retrofit Patent Application/Invention and any patent rights emanating therefrom;

NOW, THEREFORE, in consideration for the sum of \$1.00 and other good and valuable consideration, receipt of which is hereby acknowledged, the Assignor hereby assigns to the Assignee, its successors, assigns and legal representatives, its entire right, title, and interest in and to U.S. Patent Application Serial No. 12/544,960 and any divisional, continuation, continuation-in-part, substitution, reissue, reexamination, and foreign patent applications, and patents that issue from same, and Assignor hereby requests that the U.S. Director of Patents and Trademarks issue any U.S. patent directly to the Assignee.

Assignor also hereby sells, assigns and transfers unto the Assignee, its successors and assigns, all of its rights under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of a like purpose in respect of the subject Retrofit Patent Application/Invention or improvements set forth or described therein, and Assignor hereby authorizes the Assignee, its successors, assigns or other legal representatives, to apply in its or their own name or names for patents and like rights of exclusion on or for said Invention or improvements or any part thereof in all countries claiming if it or they so desire the priority of the filing date under the provisions of said Convention or any such treaties.

Assignor warrants that no assignment, sale, agreement or encumbrance has been or will be made or entered into that would conflict with this Assignment.

Assignor further agrees that it will, upon request by Assignee, but at Assignee's expense, promptly provide Assignee with all pertinent facts and documents relating to the subject Retrofit Patent Application/Invention and any and all related patent applications or patents, both foreign and domestic, as may be known and accessible to the Assignor; and that Assignor will testify to

same in any interference, opposition, or litigation related thereto, and will promptly execute and deliver to Assignee or its legal representative any and all papers, instruments, affidavits and/or declarations required to apply for, obtain, maintain, and enforce said application or patent, both foreign and domestic.

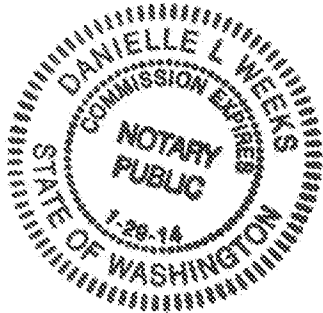
ASSIGNOR: PERFORMANCE HEATING AND AIR CONDITIONING, INC.

Dated: 8-11-10

By: [Signature]  
Name: Darrin Erdahl  
Title: Vice President

STATE OF WASHINGTON )  
 ) ss  
COUNTY OF KING )

On this 11 day of August, 2010, Darrin Erdahl personally appeared before me and is known to me to be the individual who executed this Assignment, and that he acknowledged that he signed the same of his own free and voluntary act and deed and for the uses and purposed mention therein.



[Signature]  
Notary Public in and for the  
State of wa  
Residing in Issaquah Wa 98027  
My commission expires on 01-29-14