

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT5310439

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
BRIAN D. RIGG	11/05/2018
SHAWN A. HERN	11/05/2018
ANDREW M. BOYD	11/06/2018
NOEL A. GRAJEDA-TREVIZO	11/06/2018
CODY J. KAISER	11/05/2018
TOM R. TASKER	11/06/2018
THERESA N. GILLETTE	11/05/2018
JONATHAN A. BURNS	11/06/2018
TYLER P. MCCUNE	11/06/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	JOHNSON CONTROLS TECHNOLOGY COMPANY
<b>Street Address:</b>	2875 HIGH MEADOW CIRCLE
<b>City:</b>	AUBURN HILLS
<b>State/Country:</b>	MICHIGAN
<b>Postal Code:</b>	48326-2773
<b>PROPERTY NUMBERS Total: 2</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	62752217
Application Number:	16186112
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(281)970-4503
<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>	281-970-4545
<b>Email:</b>	docket@fyiplaw.com, olivo@fyiplaw.com
<b>Correspondent Name:</b>	JOHNSON CONTROLS, INC. C/O FLETCHERYODER
<b>Address Line 1:</b>	P.O. BOX 692289
<b>Address Line 4:</b>	HOUSTON, TEXAS 77269
<b>ATTORNEY DOCKET NUMBER:</b>	17BE458 (JOCl:0573)

<b>NAME OF SUBMITTER:</b>	MATTHEW C. HENWOOD
<b>SIGNATURE:</b>	/Matthew C. Henwood/
<b>DATE SIGNED:</b>	01/04/2019
<b>Total Attachments: 10</b> source=17BE458_JOCI0573_Assignment#page1.tif source=17BE458_JOCI0573_Assignment#page2.tif source=17BE458_JOCI0573_Assignment#page3.tif source=17BE458_JOCI0573_Assignment#page4.tif source=17BE458_JOCI0573_Assignment#page5.tif source=17BE458_JOCI0573_Assignment#page6.tif source=17BE458_JOCI0573_Assignment#page7.tif source=17BE458_JOCI0573_Assignment#page8.tif source=17BE458_JOCI0573_Assignment#page9.tif source=17BE458_JOCI0573_Assignment#page10.tif	

ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned, does hereby:

SELL, ASSIGN AND TRANSFER to **Johnson Controls Technology Company** (the "Assignee"), a corporation of the State of Michigan, having a place of business at **2875 High Meadow Circle, Auburn Hills, Michigan 48326-2773**, the entire right, title and interest for the United States and all foreign countries in and to any and all improvements which are disclosed in the application for United States Letters Patent, which is entitled "**SYSTEMS AND METHODS FOR THERMAL STORAGE IN A ZONING SYSTEM,**" and which may be further identified below, such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States, including all provisional and non-provisional applications, and all foreign countries on any of such improvements; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States;

AUTHORIZE AND REQUEST that any attorney associated with PTO Customer No. **75576** may delete, insert, or alter any information identifying this application, or any related application, below after execution of this assignment;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will (1) execute all provisional, non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; (2) execute all rightful oaths, declarations, assignments, powers of attorney and other papers; (3) communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; (4) cooperate with the Assignee in any interference, opposition, dispute, or litigation involving any of the applications or patents for such improvements; and (5) generally do everything possible which the Assignee shall consider desirable for vesting title to such improvements in the Assignee, and for securing, maintaining and enforcing proper patent protection for such improvements;

TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

Additional Application Information

U.S. Provisional Application Serial No. 62/752,217, filed on October 29, 2018.

U.S. Non-Provisional Application Serial No. 16/186,112, filed on November 9, 2018.

International Application Serial No. \_\_\_\_\_, filed on \_\_\_\_\_.

INVENTOR 1:

Signature: Brian D. Rigg  
**Brian D. Rigg**

Date: 11/5/2018

Witnessed by: Safia  
Signature

Date: 11/5/2018

Safia Nooruddin  
Printed Name of Witness

Witnessed by: [Signature]  
Signature

Date: 11-5-18

JOHN LERKOVITZ  
Printed Name of Witness

**SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY**

\_\_\_\_\_  
**Brian D. Rigg**

Date: \_\_\_\_\_

STATE OF )  
                  ) §§.  
COUNTY OF )

This \_\_\_\_\_ day of \_\_\_\_\_, 2018, before me personally came the above-named **Brian D. Rigg**, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal \_\_\_\_\_  
(Notary Public)

INVENTOR 2:

Signature: Shawn A. Hern  
Shawn A. Hern

Date: 11-5-18

Witnessed by: Sajia  
Signature

Date: 11/5/18

Sajia Nooruddin  
Printed Name of Witness

Witnessed by: [Signature]  
Signature

Date: 11-5-18

Brian Derkowitz  
Printed Name of Witness

**SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY**

\_\_\_\_\_  
Shawn A. Hern

Date: \_\_\_\_\_

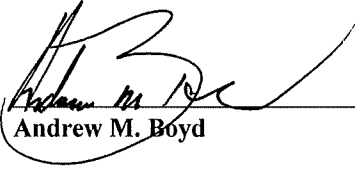
STATE OF )  
                  ) §§.  
COUNTY OF )

This \_\_\_\_\_ day of \_\_\_\_\_, 2018, before me personally came the above-named **Shawn A. Hern**, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal

\_\_\_\_\_  
(Notary Public)

INVENTOR 3:

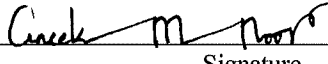
Signature:   
Andrew M. Boyd

Date: 11/6/18

Witnessed by:   
Signature

Date: 11/6/18

Sajia Nooruddin  
Printed Name of Witness

Witnessed by:   
Signature

Date: 11/6/18

Aneek Noo  
Printed Name of Witness

**SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY**

\_\_\_\_\_  
Andrew M. Boyd

Date: \_\_\_\_\_

STATE OF )  
                  ) §§.  
COUNTY OF )

This \_\_\_\_\_ day of \_\_\_\_\_, 2018, before me personally came the above-named **Andrew M. Boyd**, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal

\_\_\_\_\_  
(Notary Public)

INVENTOR 4:

Signature: Noel A. Grajeda  
Noel A. Grajeda-Trevizo

Date: 11/06/2018

Witnessed by: Sajia  
Signature

Date: 11/6/18

Sajia Nooruddin  
Printed Name of Witness

Witnessed by: Aneek Noor  
Signature

Date: 11/6/18

Aneek Noor  
Printed Name of Witness

**SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY**

\_\_\_\_\_  
Noel A. Grajeda-Trevizo

Date: \_\_\_\_\_

STATE OF )  
                  ) §§.  
COUNTY OF )

This \_\_\_\_\_ day of \_\_\_\_\_, 2018, before me personally came the above-named **Noel A. Grajeda-Trevizo**, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal

\_\_\_\_\_  
(Notary Public)

INVENTOR 5:

Signature: Cody J. Kaiser  
Cody J. Kaiser

Date: 11-5-18

Witnessed by: Safia  
Signature

Date: 11/5/18

Safia Nooruddin  
Printed Name of Witness

Witnessed by: [Signature]  
Signature

Date: 11-5-18

JOHN DEKOVITZ  
Printed Name of Witness

**SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY**

\_\_\_\_\_  
Cody J. Kaiser

Date: \_\_\_\_\_

STATE OF )  
                  ) §§.  
COUNTY OF )

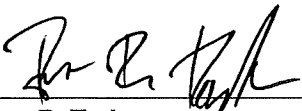
This \_\_\_\_\_ day of \_\_\_\_\_, 2018, before me personally came the above-named **Cody J. Kaiser**, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal

\_\_\_\_\_  
(Notary Public)



INVENTOR 6:

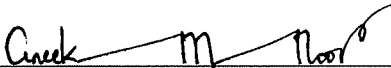
Signature:   
Tom R. Tasker

Date: 11/6/2018

Witnessed by:   
Signature

Date: 11/6/18

Safia Noouddin  
Printed Name of Witness

Witnessed by:   
Signature

Date: 11/6/18

Aneek Noor  
Printed Name of Witness

**SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY**

\_\_\_\_\_  
Tom R. Tasker

Date: \_\_\_\_\_

STATE OF )  
                  ) §§.  
COUNTY OF )

This \_\_\_\_\_ day of \_\_\_\_\_, 2018, before me personally came the above-named **Tom R. Tasker**, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal

\_\_\_\_\_  
(Notary Public)

INVENTOR 7:

Signature: Theresa Gillette  
Theresa N. Gillette

Date: 11/5/18

Witnessed by: Safia  
Signature

Date: 11/5/18

Safia Nooruddin  
Printed Name of Witness

Witnessed by: [Signature]  
Signature

Date: 11-5-18

JOHN LIEPKVITZ  
Printed Name of Witness

**SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY**

\_\_\_\_\_  
Theresa N. Gillette

Date: \_\_\_\_\_

STATE OF            )  
                          ) §§.  
COUNTY OF        )

This \_\_\_\_\_ day of \_\_\_\_\_, 2018, before me personally came the above-named **Theresa N. Gillette**, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal

\_\_\_\_\_  
(Notary Public)

INVENTOR 8:


Signature:   
Jonathan A. Burns

Date: 11-6-18

Witnessed by:   
Signature

Date: 11/6/18

Safia Noonuddin  
Printed Name of Witness

Witnessed by:   
Signature

Date: 11/6/18

Aneek Noor  
Printed Name of Witness

**SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY**

\_\_\_\_\_  
**Jonathan A. Burns**

Date: \_\_\_\_\_

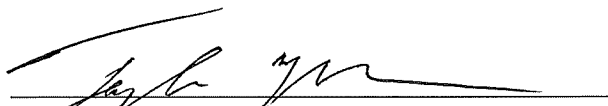
STATE OF )  
                  ) §§.  
COUNTY OF )

This \_\_\_\_\_ day of \_\_\_\_\_, 2018, before me personally came the above-named **Jonathan A. Burns**, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal

\_\_\_\_\_  
(Notary Public)

INVENTOR 9:

Signature:   
Tyler P. McCune

Date: 11/06/2018

Witnessed by: Safia  
Signature

Date: 11/6/18

Safia Nooruddin  
Printed Name of Witness

Witnessed by:   
Signature

Date: 11-6-18

John Derkovic  
Printed Name of Witness

**SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY**

\_\_\_\_\_  
Tyler P. McCune

Date: \_\_\_\_\_

STATE OF )  
                  ) §§.  
COUNTY OF )

This \_\_\_\_\_ day of \_\_\_\_\_, 2018, before me personally came the above-named **Tyler P. McCune**, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal

\_\_\_\_\_  
(Notary Public)