

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT6537186

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
PENTAIR FLOW SERVICES AG	04/24/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	NVENT SERVICES GMBH
<b>Street Address:</b>	MÜHLENSTRASSE 26
<b>City:</b>	SCHAFFHAUSEN
<b>State/Country:</b>	SWITZERLAND
<b>Postal Code:</b>	8200
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	29769537
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(414)978-8858
<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>	4142775157
<b>Email:</b>	jere.polmatier@quarles.com
<b>Correspondent Name:</b>	JERE POLMATIER
<b>Address Line 1:</b>	QUARLES & BRADY LLP
<b>Address Line 2:</b>	411 EAST WISCONSIN AVENUE, SUITE 2400
<b>Address Line 4:</b>	MILWAUKEE, WISCONSIN 53202
<b>ATTORNEY DOCKET NUMBER:</b>	148568.02977
<b>NAME OF SUBMITTER:</b>	JERE L. POLMATIER
<b>SIGNATURE:</b>	/JLP/
<b>DATE SIGNED:</b>	02/05/2021
<b>Total Attachments: 10</b>	
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United States

**CONFIRMATORY PATENT ASSIGNMENT**

This CONFIRMATORY PATENT ASSIGNMENT (the "Assignment") is made by and between **Pentair Flow Services AG** a stock corporation (Aktiengesellschaft) organized under the laws of Switzerland and located at Freier Platz 10 Schaffhausen 8200, Switzerland (the "Transferor"); and **nVent Services GmbH**, a private limited company organized under the laws of Switzerland and located at Freier Platz 10 Schaffhausen 8200, Switzerland (the "Transferee").

Whereas, the Transferor is the owner of the Patents listed in the attached Schedule; and

Whereas, the Transferee desires to acquire the Patents.

Now, therefore, in consideration of \$10.00 and for other good and valuable consideration, the receipt and sufficiency of which are hereby expressly acknowledged, the Transferor hereby sells, assigns and transfers to the Transferee, the Transferor's entire right, title and interest in and to the Patents, and all rights to all income, royalties, claims, payments, and any and all proceeds, benefits, privileges, causes of action, and remedies relating to the Patents, all rights to bring an action, whether at law or in equity, for infringement, misuse or other violation of the Patents against any third party, all rights to recover damages, profits and injunctive relief for all past, present or future infringement, misuse, or other violation of the Patents.

This Assignment is made pursuant to the *IP Contribution Agreement* by and between the parties, dated as of 25 January 2018 (the "Agreement"). Terms not defined in this Assignment will have the meaning set forth in the Agreement. To the extent of any conflict between the terms of this Assignment and the Agreement, the terms of the Agreement will prevail and control.

In witness whereof, the Parties have caused this Assignment to be executed as of the dates written below.

*Remainder of Page Intentionally Left Blank.  
Signatures Follow.*

**Pentair Flow Services AG**

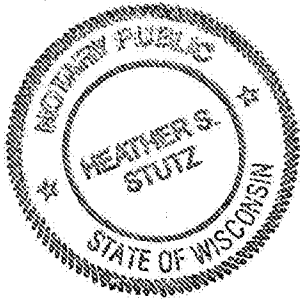
By: Marta Levine

Name: Marta S. Levine

Title: Authorized Representative

The above-named individual, to me known to be the individual named above, personally appeared before me this 21th day of April, 2018, and acknowledged that he/she executed the foregoing Assignment on behalf of the company and pursuant to authority duly received.

(SEAL)



Heather S. Stutz  
Notary Public

State of Wisconsin - My commission is permanent

**nVent Services GmbH**

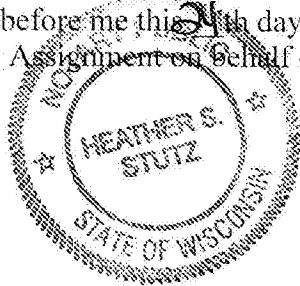
By: Hillary J. Wucherer

Name: Hillary J. Wucherer

Title: Authorized Representative

The above-named individual, to me known to be the individual named above, personally appeared before me this 21th day of April, 2018, and acknowledged that he/she executed the foregoing Assignment on behalf of the company and pursuant to authority duly received.

(SEAL)



Heather S. Stutz  
Notary Public

State of Wisconsin - My commission is permanent

**SCHEDULE  
CONFIRMATORY PATENT ASSIGNMENT**

Title	Country	Patent/App #	Filed	Status	Expires
Sub-Harmonic Arc Fault Detection System And Method	United States	9,366,716	23-May-2013	Granted	11-Mar-2034
Arc Fault Detection System And Method	United States	9,366,713	23-May-2013	Granted	12-Apr-2034
Lighted Cable Termination Device Having Expanded Viewing Area	United States	9,816,680	5-Jun-2014	Granted	19-Aug-2034
Lighted Cable Termination Assembly	United States	29/493,147	5-Jun-2014	Pending	
Downhole Wellbore Heating System And Method	United States	9,416,640	20-Sep-2013	Granted	11-Feb-2035
Thermal Age Tracking System And Method	United States	9,733,201	15-Nov-2013	Granted	28-Mar-2036
Mineral Insulated Skin Effect Heating Cable	United States	14/696,191	24-Apr-2015	Abandoned	
Heat Trace System Including Hybrid Composite Insulation	United States	9,719,623	28-May-2013	Granted	25-Apr-2032

Title	Country	Patent/App #	Filed	Status	Expires
Manufacture Of Heat Trace Cable, Design, Installation, And Management, And Method Thereof	United States	8,855,972	1-Sep-2010	Granted	14-Oct-2031
Manufacture Of Heat Trace Cable, Design, Installation, And Management, And Method Thereof	United States	7,917,339	5-Nov-2007	Granted	06-Mar-2029
Snow Sensing Systems	United States	14/860,569	21-Sep-2015	Abandoned	
Method Of Cold Joining Mineral Insulated Cables	United States	14/489,286	17-Sep-2014	Abandoned	
Voltage-Leveling Heater Cable	United States	14/879,894	9-Oct-2015	Published	
MI Cable End Termination	United States	14/841,450	31-Aug-2015	Abandoned	
Variable Power Limiting Heat Tracing Cable	United States	6,144,018	16-May-1997	Expired	
Sensor Cable	United States	6,777,947	29-Apr-2002	Granted	29-Apr-2022
High Temperature Slip-Sealing Grommet Systems	United States	6,441,305	28-Sep-2000	Granted	28-Sep-2020

Title	Country	Patent/App #	Filed	Status	Expires
Electric Cable Having Braidless Polymeric Ground Plane Providing Fault Detection	United States	6,288,372	3-Nov-1999	Granted	25-Oct-2020
Connector For Electrical Cable	United States	6,206,720	7-Jan-2000	Granted	15-Oct-2018
Leak Detection	United States	5,918,267	4-Jun-1997	Expired	
Electrical Plug	United States	5,913,574	25-Nov-1997	Expired	
Electrical Plug	United States	5,924,888	24-Jun-1997	Expired	
Electrical Device	United States	6,111,234	6-Nov-1992	Expired	
Electrical Devices Comprising Conductive Polymer Compositions	United States	6,221,282	13-Jul-1981	Granted	24-Apr-2018
Adjustable Cable Connector Wire Guide And Connector Assembly Incorporating The Same	United States	7,645,173	7-Jul-2006	Granted	24-Nov-2025
Heater Cable Having a Tapered Profile	United States	15/019,834	9-Feb-2016	Published	

Title	Country	Patent/App #	Filed	Status	Expires
Method And Apparatus For High Temperature Series/Parallel Heating Using Mineral Insulated And Ferromagnetic Skin Effect Cable	United States	14/239,241	17-Feb-2014	Pending	
Low Sheath Temps For Mi Heating Cable	United States	13/931,863	29-Jun-2013	Published	
Tank Roof Expansion Joint	United States	9,243,416	15-Oct-2012	Granted	23-Nov-2032
Storage Tank Insulation Joint Apparatus And Method	United States	14/988,606	5-Jan-2016	Published	
Discrete Leak Detection Device And Method	United States	7,755,498	10-Aug-2007	Abandoned	
Skin Effect Heating System Having Improved Heat Transfer And Wire Support Characteristics	United States	9,556,709	18-Apr-2011	Granted	17-Nov-2030
Sensor-Powered Wireless Cable Leak Detection	United States	8,818,740	16-Feb-2011	Granted	20-Jun-2032



Title	Country	Patent/App #	Filed	Status	Expires
Subterranean Electro-Thermal Heating System And Method	United States	7,568,526	12-Jan-2007	Granted	29-Jul-2024
Subterranean Electro-Thermal Heating System And Method	United States	7,322,415	29-Jul-2004	Granted	28-Sep-2025
Multilayer Heat Tracing Insulation Device And Method	United States	7,793,689	28-Feb-2009	Granted	28-Feb-2029
Sensor For Detecting Organic Liquids	United States	7,859,273	1-Dec-2006	Granted	10-Nov-2027
Anti-Icing Walkway With Integrated Control And Switching	United States	15/398,587	4-Jan-2017	Published	
Shielded Wire For High Voltage Skin Effect Trace Heating	United States	15/591,949	10-May-2016	Published	
Bus Wire Identification	United States	62/364,482	20-Jul-2016	Abandoned	
Voltage-Leveling Monolithic Self-Regulating Heater Cable	United States	15/583,848	01-May-2017	Published	

Title	Country	Patent/App #	Filed	Status	Expires
High Voltage Skin Effect Trace Heating Cable Isolating Radial Spacers	United States	15/596,969	16-May-2017	Published	
Low Profile Cable End Power Indicator	United States	62/413,894	27-Oct-2016	Expired	
Automated Re-Melt Control Systems	United States	15/701,383	9-Sep-2016	Published	
Flexible Small-Diameter Self-Regulating Heater Cable	United States	15/433,907	15-Feb-2017	Published	
Floor Underlayment For Retaining Heater Cable	United States	15/384,069	17-Dec-2015	Published	
High Visibility Termination System and Method	United States	15/811,346	13-Nov-2017	Published	
Voltage-Leveled Heating Cable with Adjustable Power Output	United States	15/921,571	14-Mar-2018	Pending	
Universal Power Controller	United States	62/508,282	18-May-2017	Pending	
Cable Sealing Gland	United States	15/926,939	20-Mar-2018	Pending	

Title	Country	Patent/App #	Filed	Status	Expires
Low Smoke, Zero Halogen Self-Regulating Heating Cable	United States	15/885,270	31-Jan-2018	Pending	
Flexible, Low-Profile Heating Cable	United States	14/225,158	25-Mar-2014	Abandoned	
Fire-Rated Three-Way Splice Assembly	United States	15/905,500	26-Feb-2018	Pending	
High Voltage Skin Effect Heater Cable with Semiconductive Jacket	United States	15/933,203	22-Mar-2018	Pending	
Temperature Control Element for Anti-Icing that Matches Heat Loss Characteristics of Item Being Controlled	United States	62/534,578	19-Jul-2017	Pending	
Pressurized High Voltage Skin Effect Heat Tracing System and Method	United States	62/522,928	21-Jun-2017	Pending	
Pre-Heating Dual Heater With Improved In-Rush Performance	United States	62/581,173	03-Nov-2017	Pending	

Title	Country	Patent/App #	Filed	Status	Expires
Inrush Limit of Self-Regulating Heating Cables	United States	62/581,231	03-Nov-2017	Pending	
Suspension Mounted Heating System	United States	62/572,923	16-Oct-2017	Pending	
Pedestal Mounted Paver Heating System	United States	62/572,968	16-Oct-2017	Pending	
Radiant Heating System for a Surface Structure, and Surface Structure Assembly with Radiant Heater	United States	14/665,134	23-Mar-2015	Published	
Adaptive Freeze, Snow or Ice Protection System and Method	United States	9,290,273	27-Jun-2013	Granted	02-Dec-2034
Shielded Fluoropolymer Wire for High Temperature Skin Effect Trace Heating	United States	15/902,804	22-Feb-2018	Pending	
Heating Cable Routing for Anti-Icing Cassettes	United States	62/658,365	16-Apr-2018	Pending	
Heated Floor Panel For Transit	United States	8,796,588	14-Mar-2006	Granted	22-Dec-2028