

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4808519

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
PENTAIR FLOW CONTROL AG	06/30/2017
RECEIVING PARTY DATA	
Name:	EMERSON VULCAN HOLDING LLC
Street Address:	8000 W. FLORISSANT AVENUE
City:	ST. LOUIS
State/Country:	MISSOURI
Postal Code:	63136
PROPERTY NUMBERS Total: 4	
Property Type	Number
Application Number:	15132889
Application Number:	15132869
Application Number:	15132850
Application Number:	15171918
CORRESPONDENCE DATA	
Fax Number:	
<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>	
Email:	heather.stutz@quarles.com
Correspondent Name:	HEATHER S. STUTZ, QUARLES & BRADY LLP
Address Line 1:	411 E. WISCONSIN AVENUE, SUITE 2400
Address Line 4:	MILWAUKEE, WISCONSIN 53202
ATTORNEY DOCKET NUMBER:	148571.04232
NAME OF SUBMITTER:	HEATHER S. STUTZ
SIGNATURE:	/Heather S. Stutz/
DATE SIGNED:	02/04/2018
Total Attachments: 7	
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United States

**CONFIRMATORY ASSIGNMENT OF
REGISTERED INTELLECTUAL PROPERTY**

This CONFIRMATORY ASSIGNMENT OF REGISTERED INTELLECTUAL PROPERTY (the "Assignment") is made by and between **Pentair Flow Control AG** a stock corporation (Aktiengesellschaft) organized under the laws of Switzerland (as of July 7, 2017 now known as **Emerson Automation Solutions GmbH**, a limited liability company organized under the laws of Switzerland) and located at Mühlenstrasse 26, CH-8200 Schaffhausen, Switzerland (the "Company"; and **Emerson Vulcan Holding LLC**, a limited liability company organized under the laws of Delaware (US) and located at 8000 W. Florissant Avenue, St. Louis, Missouri 63136 (US) (the "Purchaser").

Whereas, the Company is the owner of the Registered Intellectual Property listed in the attached Schedule; and

Whereas, the Purchaser desires to acquire the Registered Intellectual Property.

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 Company hereby sells, assigns and transfers to the Purchaser, the Company's entire right, title and interest in and to the Registered Intellectual Property, the goodwill of the business in connection therewith, and all rights to sue for past infringement thereof.

This Assignment is made pursuant to the *Intellectual Property Purchase Agreement* by and between the parties, dated as of 30 June 2017 (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 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 Control AG (now known as
Emerson Automation Solutions GmbH)

By: *Hilary J. Wucherer*

Name: Hilary J. Wucherer

Title: Authorized Representative

The above-named individual, to me known to be the individual named above, personally appeared before me this 9th day of October, 2017, 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

Emerson Vulcan Holding LLC

By: *Marta S. 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 9th day of October, 2017, 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 ASSIGNMENT OF
REGISTERED INTELLECTUAL PROPERTY**

Title	Country	Patent/App #	Filed	Status	Expires
Pilot-Operated Relief Valve	U.S.	6192924	3/14/2000	Granted	3/14/2020
Pilot Operated Relief Valve	U.S.	6318406	3/14/2000	Granted	3/14/2020
Pilot-Operated Relief Valve	U.S.	6161570	6/1/1999	Granted	6/1/2019
Actuator Assembly	U.S.	6640688	5/29/2001	Granted	8/25/2020
Pressure Relief Valve System Including a Pilot Valve Having a Radial Damper Mechanism	U.S.	6286534	1/11/2000	Granted	1/11/2020
Gate Valve	U.S.	5890700	7/29/1997	Granted	7/29/2017
Gate Valve	U.S.	7100893	8/29/2001	Granted	8/4/2023
Pulsation Damping Assembly and Method	U.S.	6478052	7/25/2001	Granted	7/25/2021
A Valve Assembly Having a Unitary Valve Sleeve	U.S.	8016265	4/26/2007	Granted	10/6/2029

Title	Country	Patent/App #	Filed	Status	Expires
A Valve Assembly Having a Unitary Valve Sleeve	U.S.	8220778	12/11/2008	Granted	8/22/2028
A Valve Assembly Having a Unitary Valve Sleeve	U.S.	8397386	7/16/2010	Granted	4/26/2027
Adjustable Recirculating Valve	U.S.	8215330	1/19/2010	Granted	3/14/2028
Gate Valve with Integrated Support Members	U.S.	8403298	2/9/2010	Granted	2/19/2031
Pressure Regulator Having an Intergral Pilot and Self-Relieving Mechanism	U.S.	8627846	11/5/2010	Granted	3/2/2032
Pressure Build Economizer Valve	U.S.	8517043	11/9/2010	Granted	9/14/2031
Sleeve Seal for Gate Valves	U.S.	9188231	9/16/2011	Granted	1/21/2033
Segmented Valve Packing Gland	U.S.	9371916	9/5/2013	Granted	11/19/2033
Relief Valve With Directable Outlet	U.S.	14/476,017	9/3/2014	Published	
Vibration Damping Device	U.S.	9103466	3/5/2014	Granted	3/6/2033
Vibration Damping Device	U.S.	9103467	3/5/2014	Granted	3/6/2033

Title	Country	Patent/App #	Filed	Status	Expires
Vibration Damping Device	U.S.	9200726	3/5/2014	Granted	3/6/2033
Lubrication System for a Gate Valve	U.S.	9541202	6/3/2014	Granted	6/3/2034
Lubrication System for a Gate Valve	U.S.	15/363,644	11/29/2016	Published	
Ball Valve with Conical Stem Seal	U.S.	9353873	9/30/2014	Granted	9/30/2033
Low Pressure Pilot Operated Relief Valve-PMG	U.S.	9519294	1/20/2015	Granted	8/5/2035
Low Pressure Pilot Operated Relief Valve-PMG	U.S.	15/346,813	11/9/2016	Published	
Choke Valve Wear Monitoring System and Method	U.S.	15/009,227	1/28/2016	Pending	
Gate Supports for a Gate Valve	U.S.	15/132,889	4/19/2016	Published	
Diaphragm Controlled Bypass Valve	U.S.	8028712	7/7/2008	Granted	10/10/2029
Diaphragm Controlled Bypass Valve	U.S.	8066026	5/8/2008	Granted	4/5/2030
Electro-Hydraulic Actuator	U.S.	14/930,474	11/2/2015	Pending	

Title	Country	Patent/App #	Filed	Status	Expires
Emergency Valve	U.S.	7650905	5/6/2005	Granted	5/28/2026
Gasket Retaining Ring for a Valve-Ball	U.S.	62/318,827	4/6/2016	Pending	4/6/2017
Gasket Retaining Ring for a Valve-Ball	U.S.	15/471,950	3/28/2017	Pending	
Gate Valve with Lubricated Secondary Seal	U.S.	8408519	3/5/2010	Granted	
Gate Valve with Lubricated Secondary Seal	U.S.	8056882	3/6/2009	Granted	3/16/2030
Hydrostatic Gasket Seal	U.S.	15/132,850	4/19/2016	Pending	
Knife Gate Valve Liner	U.S.	15/171,918	6/2/2016	Pending	
System for Visual Position Monitoring of a Valve	U.S.	62/405,124	10/6/2016	Pending	
Port Gate Supports	U.S.	15/132,869	4/19/2016	Pending	
Pressure Relief Valve Monitoring Device	U.S.	6283138	4/2/1999	Granted	4/2/2019
Valve Assembly Having Reinforced Valve Seat	U.S.	7815170	11/14/2007	Granted	12/22/2028

Title	Country	Patent/App #	Filed	Status	Expires
Rotary Gate Valve/Rotary Gate Valve with Secondary Seal	U.S.	8251086	7/16/2010	Granted	6/1/2028
Subsonic and Liquid Flow Valve Body Baffle Design	U.S.	5967165	12/19/1997	Granted	12/19/2017
Switch Valve	U.S.	6240946	9/17/1998	Granted	9/17/2018
Desuperheater System	U.S.	15/088,511	4/1/2016	Published	