

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT5883329

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	RELEASE OF SECURITY INTEREST
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
PNC BANK, NATIONAL ASSOCIATION	12/18/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	HUDSON TECHNOLOGIES, INC
<b>Street Address:</b>	ONE BLUE HILL PLAZA
<b>City:</b>	PEARL RIVER
<b>State/Country:</b>	NEW YORK
<b>Postal Code:</b>	10965
<b>PROPERTY NUMBERS Total: 27</b>	
<b>Property Type</b>	<b>Number</b>
Patent Number:	5802859
Patent Number:	5377499
Patent Number:	5502974
Patent Number:	6141977
Patent Number:	6164080
Patent Number:	6357240
Patent Number:	6290778
Patent Number:	6505475
Patent Number:	7059143
Patent Number:	7086240
Patent Number:	7533536
Patent Number:	7805952
Patent Number:	8327653
Patent Number:	9222712
Application Number:	14980962
Patent Number:	7599759
Patent Number:	8046107
Patent Number:	8463441
Patent Number:	9423165
Application Number:	15243701

PATENT

Property Type	Number
Patent Number:	8205462
Patent Number:	8544287
Patent Number:	8695364
Patent Number:	9519891
Application Number:	14744776
Patent Number:	9435575
Application Number:	15255826

#### CORRESPONDENCE DATA

**Fax Number:** (203)782-2889

*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.*

**Phone:** 2034984400

**Email:** ip@wiggins.com

**Correspondent Name:** WIGGIN AND DANA LLP

**Address Line 1:** 265 CHURCH STREET

**Address Line 2:** ONE CENTURY TOWER

**Address Line 4:** NEW HAVEN, CONNECTICUT 06510

<b>NAME OF SUBMITTER:</b>	ALEXIS PERRY
<b>SIGNATURE:</b>	/ALEXIS L. PERRY/
<b>DATE SIGNED:</b>	12/24/2019

#### Total Attachments: 10

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**TERMINATION AND RELEASE OF  
PATENTS, TRADEMARKS AND COPYRIGHTS SECURITY AGREEMENT**

**THIS TERMINATION AND RELEASE OF PATENTS, TRADEMARKS AND COPYRIGHTS SECURITY AGREEMENT** (this "Termination"), is dated as of December 18, 2019, and made by PNC Bank, National Association (the "Grantee"), to Hudson Technologies Company, a corporation organized under the laws of the State of Tennessee (the "Grantor"). All capitalized terms used in this Termination and not otherwise defined herein, shall have the respective meanings given to such terms in the Security Agreement (as defined below).

WHEREAS, pursuant to that certain Amended and Restated Patents, Trademarks and Copyrights Security Agreement dated as of October 10, 2017, made by Grantor in favor of Grantee (as the same may be amended, restated, amended and restated, supplemented, modified, or otherwise in effect prior to the date hereof, the "Security Agreement"), a security interest was granted by the Grantor to Grantee in certain collateral, including the Intellectual Property (as hereinafter defined);

WHEREAS, the Security Agreement was recorded with the trademark division of the United States Patent and Trademark Office (the "USPTO") on October 17, 2017, at Reel/Frame 6184/0309; and

WHEREAS, Grantee now desires to terminate the Security Agreement and terminate, release and discharge its security interest in the Intellectual Property;

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, and upon the terms set forth in this Termination, Grantee hereby states as follows:

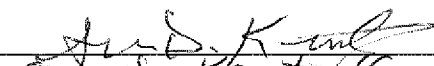
1. Definitions. The term "Intellectual Property," as used herein, shall mean and include all of the Grantor's right, title and interest, including goodwill, of every kind and nature as of the date hereof in, to and under the Trademarks, Patents, and Copyrights, including without limitation those trademarks listed on Exhibit A hereto.

2. Release of Security Interest. Grantee hereby terminates the Security Agreement and terminates, releases and discharges its security interest in, to, and under the Intellectual Property and reassigns to the person or persons legally entitled thereto all right, title and interest of Grantee in the Intellectual Property, and any right, title or interest of the Grantee in such Intellectual Property shall hereby cease and be void. Grantee acknowledges that this Termination may be filed along with any other necessary documentation with the USPTO or any other governmental office to evidence the release granted herein at the sole expense of the Grantor. Grantee authorizes the Grantor and its designees to record this Termination with the USPTO and other applicable registry at the sole expense of the Grantor and agrees to provide the Grantor with any information and additional authorization necessary to effect the release of the security interest in the Intellectual Property.

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IN WITNESS WHEREOF, the Grantee has caused this Termination to be executed by its duly authorized officer as of the date first written above.

**PNC BANK, NATIONAL ASSOCIATION**

By:   
Name: Glenn D. Kreutzberg  
Title: SR. Vice President

**Exhibit A**

**TRADEMARKS**

<b>Mark</b>	<b>App. No.</b>	<b>Filing Date</b>	<b>Reg. No.</b>	<b>Issue Date</b>
REFRIGERANTSIDE	75/532,327	08/06/1998	2,559,214	04/09/2002
R-SIDE	75/532,328	08/06/1998	2,601,434	07/30/2002

**TERMINATION AND RELEASE OF  
PATENTS, TRADEMARKS AND COPYRIGHTS SECURITY AGREEMENT**

**THIS TERMINATION AND RELEASE OF PATENTS, TRADEMARKS AND COPYRIGHTS SECURITY AGREEMENT** (this "Termination"), is dated as of December 18, 2019, and made by PNC Bank, National Association (the "Grantee"), to Hudson Technologies, Inc., a corporation organized under the laws of the State of New York (the "Grantor"). All capitalized terms used in this Termination and not otherwise defined herein, shall have the respective meanings given to such terms in the Security Agreement (as defined below).

WHEREAS, pursuant to that certain Amended and Restated Patents, Trademarks and Copyrights Security Agreement dated as of October 10, 2017, made by Grantor in favor of Grantee (as the same may be amended, restated, amended and restated, supplemented, modified, or otherwise in effect prior to the date hereof, the "Security Agreement"), a security interest was granted by the Grantor to Grantee in certain collateral, including the Intellectual Property (as hereinafter defined);

WHEREAS, the Security Agreement was recorded with the patent division of the United States Patent and Trademark Office (the "USPTO") on October 17, 2017, at Reel/Frame 043887/0250 and with the trademark division of the USPTO on October 17, 2017, at Reel/Frame 6184/0339; and

WHEREAS, Grantee now desires to terminate the Security Agreement and terminate, release and discharge its security interest in the Intellectual Property;

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, and upon the terms set forth in this Termination, Grantee hereby states as follows:


1. Definitions. The term "Intellectual Property," as used herein, shall mean and include all of the Grantor's right, title and interest, including goodwill, of every kind and nature as of the date hereof in, to and under the Trademarks, Patents, and Copyrights, including without limitation those patents and trademarks listed on Exhibit A hereto.

2. Release of Security Interest. Grantee hereby terminates the Security Agreement and terminates, releases and discharges its security interest in, to, and under the Intellectual Property and reassigns to the person or persons legally entitled thereto all right, title and interest of Grantee in the Intellectual Property, and any right, title or interest of the Grantee in such Intellectual Property shall hereby cease and be void. Grantee acknowledges that this Termination may be filed along with any other necessary documentation with the USPTO or any other governmental office to evidence the release granted herein at the sole expense of the Grantor. Grantee authorizes the Grantor and its designees to record this Termination with the USPTO and other applicable registry at the sole expense of the Grantor and agrees to provide the Grantor with any information and additional authorization necessary to effect the release of the security interest in the Intellectual Property.

[remainder of page intentionally blank]

IN WITNESS WHEREOF, the Grantee has caused this Termination to be executed by its duly authorized officer as of the date first written above.

**PNC BANK, NATIONAL ASSOCIATION**

By:   
Name: Glenn D. Kreutzberg  
Title: SR. Vice President

**Exhibit A**

**PATENTS:**

<b>Patent Title</b>	<b>Application #</b>	<b>Publication#:</b>	<b>Issue Date</b>
<b>APPARATUS FOR RECOVERING AND ANALYZING VOLATILE REFRIGERANTS</b>	08/766,957	5,802,859	08-Sep-1998
<b>METHOD AND APPARATUS FOR REFRIGERANT RECLAMATION</b>	08/240,444	5,377,499	03-Jan-1995
<b>HYDRAULIC SYSTEM FOR RECOVERING REFRIGERANTS</b>	08/299,523	5,502,974	02-Apr-1996
<b>APPARATUS FOR RECOVERING AND ANALYZING VOLATILE REFRIGERANTS</b>	09/146,590	6,141,977	07-Nov-2000
<b>APPARATUS AND METHOD FOR FLUSHING A REFRIGERATION SYSTEM</b>	09/373,301	6,164,080	26-Dec-2000
<b>APPARATUS AND METHOD FOR FLUSHING A CHILLER SYSTEM</b>	09/373,300	6,357,240	19-Mar-2002
<b>METHOD AND APPARATUS FOR SONIC CLEANING OF HEAT EXCHANGERS</b>	09/373,299	6,290,778	18-Sep-2001
<b>METHOD AND APPARATUS FOR MEASURING AND IMPROVING EFFICIENCY IN REFRIGERATION SYSTEMS</b>	09/577,703	6,505,475	14-Jan-2003
<b>METHOD AND APPARATUS FOR MEASURING AND IMPROVING EFFICIENCY IN REFRIGERATION SYSTEMS</b>	10/338,941	7,059,143	13-Jun-2006
<b>METHOD AND APPARATUS FOR MEASURING AND IMPROVING EFFICIENCY IN REFRIGERATION SYSTEMS</b>	11/182,249	7,086,240	08-Aug-2006
<b>METHOD AND APPARATUS FOR MEASURING AND IMPROVING EFFICIENCY IN REFRIGERATION SYSTEMS</b>	11/463,101	7,533,536	19-May-2009
<b>METHOD AND APPARATUS FOR MEASURING AND IMPROVING EFFICIENCY IN REFRIGERATION SYSTEMS</b>	12/468,506	7,805,952	05-Oct-2010
<b>METHOD AND APPARATUS FOR MEASURING AND IMPROVING EFFICIENCY IN</b>	12/898,289	8,327,653	11-Dec-2012

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<b>REFRIGERATION SYSTEMS</b>			
<b>METHOD AND APPARATUS FOR MEASURING AND IMPROVING EFFICIENCY IN REFRIGERATION SYSTEMS</b>	13/707,829	9,222,712	29-Dec-2015
<b>METHOD AND APPARATUS FOR MEASURING AND IMPROVING EFFICIENCY IN REFRIGERATION SYSTEMS</b>	14/980,962	N/A	N/A
<b>METHOD AND APPARATUS FOR OPTIMIZING REFRIGERATION SYSTEMS</b>	10/730,791	7,599,759	06-Oct-2009
<b>METHOD AND APPARATUS FOR OPTIMIZING REFRIGERATION SYSTEMS</b>	12/565,147	8,046,107	25-Oct-2011
<b>METHOD AND APPARATUS FOR OPTIMIZING REFRIGERATION SYSTEMS</b>	1020117002171	101338012	02-Dec-2013
<b>SYSTEM AND METHOD FOR RECYCLING NON-REUSABLE REFRIGERANT CONTAINERS</b>	13/280,302	8,463,441	11-Jun-2013
<b>METHOD AND APPARATUS FOR OPTIMIZING REFRIGERATION SYSTEMS</b>	13/913,664	9,423,165	23-Aug-2016
<b>METHOD AND APPARATUS FOR OPTIMIZING REFRIGERATION SYSTEMS</b>	15/243,701	N/A	N/A
<b>SYSTEM AND METHOD FOR RECYCLING NON-REUSABLE REFRIGERANT CONTAINERS</b>	12/251,385	8,205,462	26-Jun-2012
<b>SYSTEM AND METHOD FOR RECYCLING NON-REUSABLE REFRIGERANT CONTAINERS</b>	13/532,929	8,544,287	01-Oct-2013
<b>SYSTEM AND METHOD FOR RECYCLING NON-REUSABLE REFRIGERANT CONTAINERS</b>	14/038,838	8,695,364	15-Apr-2014
<b>SYSTEM AND METHOD FOR RECYCLING NON-REUSABLE REFRIGERANT CONTAINERS</b>	14/252,899	9,519,891	13-Dec-2016
<b>SYSTEM AND METHOD FOR RETROFITTING A REFRIGERATION SYSTEM FROM HCFC TO HFC REFRIGERANT</b>	14/744,776	N/A	N/A
<b>SYSTEM AND METHOD FOR RETROFITTING A REFRIGERATION SYSTEM FROM HCFC TO HFC REFRIGERANT</b>	14/877,609	9,435,575	06-Sep-2016
<b>SYSTEM AND METHOD FOR RETROFITTING A</b>	15/255,826	N/A	N/A

<b>REFRIGERATION SYSTEM FROM HCFC TO HFC REFRIGERANT</b>			
<b>METHOD AND APPARATUS FOR OPTIMIZING REFRIGERATION SYSTEMS</b>	038129110	1585924	30-Dec-2015
<b>METHOD AND APPARATUS FOR OPTIMIZING REFRIGERATION SYSTEMS</b>	201001292	027469	31-Jul-2017
<b>METHOD AND DEVICE FOR OPTIMIZATION OF REFRIGERATING SYSTEMS</b>	200500945	N/A	N/A
<b>METHOD AND APPARATUS FOR OPTIMIZING REFRIGERATION SYSTEMS</b>	2005511749	4691736	04-Mar-2011
<b>METHOD AND APPARATUS FOR OPTIMIZING REFRIGERATION SYSTEMS</b>	PAA2005006174	272130	24-Nov-2009

**TRADEMARKS:**

<b>Trademark</b>	<b>Application #</b>	<b>Publication#:</b>	<b>Issue Date</b>
<b>COLDPACK</b>	87558718	N/A	N/A
<b>CHILLER CHEMISTRY</b>	78/591,426	3,190,044	12/26/2006
<b>HUDSON TECHNOLOGIES, INC.</b>	74/677,360	1,969,986	04/23/1996
<b>GLACIER</b>	75/253,240	2,227,148	03/02/1999
<b>FLUID CHEMISTRY</b>	77/638,497	3,788,857	05/11/2010
<b>CLEAN EXCHANGE</b>	85/041,598	4,187,266	08/07/2012
<b>AMERI-PURE</b>	85/428,775	4,552,124	06/17/2014
<b>SMARTENERGY OPS</b>	86/305,954	4,951,990	05/03/2016
<b>SMARTENERGY OPS OPERATIONS/PERFOR MANCE/SERVICE AND DESIGN</b>	86/305,973	4,951,991	05/03/2016
<b>CHILLSMART</b>	78/591,413	3,184,719	12/12/2006
<b>CHILLSMART</b>		878512	09/21/2005
<b>CHILLSMART</b>		2005/19997	09/21/2005

<b>CHILLER CHEMISTRY</b>		878513	09/21/2005
<b>CHILLER CHEMISTRY</b>		2005/19998	09/21/2005