

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

Assignment ID: PATI780008

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	TYCO FIRE & SECURITY GMBH	09/24/2024
RECEIVING PARTY DATA		
Company Name:	JOHNSON CONTROLS LIGHT COMMERCIAL IP GMBH	
Street Address:	VICTOR VON BRUNS-STRASSE 21	
Internal Address:	NEUHAUSEN AM RHEINFALL	
City:	SCHAFFHAUSEN	
State/Country:	SWITZERLAND	
Postal Code:	8212	
PROPERTY NUMBERS Total: 297		
Property Type	Number	
Application Number:	15645875	
Application Number:	29548668	
Application Number:	15398610	
Application Number:	15985444	
Application Number:	15666805	
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Application Number:	15937630	

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Application Number:	14704751
Application Number:	14849331
Application Number:	15398605
Application Number:	16267081
Application Number:	15398599

CORRESPONDENCE DATA

Fax Number:

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: 4014431097

Email: EFROSYNI.IOSIPHIDIS@JCI.COM,CKING@FOLEY.COM

Correspondent Name: Ms. EFROSYNI IOSIPHIDIS

Address Line 1: 1467 ELMWOOD AVE

Address Line 4: CRANSTON, RHODE ISLAND 02910

ATTORNEY DOCKET NUMBER: PROJECT RUGBY 1

NAME OF SUBMITTER: Efrosyni Iosiphidis

SIGNATURE: /Efrosyni Iosiphidis/

DATE SIGNED: 01/24/2025

Total Attachments: 27

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PATENT ASSIGNMENT AGREEMENT

This PATENT ASSIGNMENT AGREEMENT (this "Assignment"), dated as of September 24, 2024 ("Effective Date"), is entered into by and between **Tyco Fire & Security GmbH**, a limited liability company organized and existing under the laws of Switzerland, with its registered address at Victor von Bruns-Strasse 21, 8212 Neuhausen am Rheinfall, Schaffhausen, Switzerland ("Assignor") and **Johnson Controls Light Commercial IP GmbH**, a limited liability company organized and existing under the laws of Switzerland, with its registered address at Victor von Bruns-Strasse 21, 8212 Neuhausen am Rheinfall, Schaffhausen, Switzerland ("Assignee"). Assignor and Assignee are collectively referred to herein as the "Parties."

RECITALS

WHEREAS, the Parties have entered into an IP Asset Purchase Agreement, effective as of September 24, 2024 (the "Purchase Agreement"), pursuant to which Seller has agreed to sell, assign, transfer and convey to Assignee, among other things, all of Seller's right, title and interest in and to the Purchased IP, including (but not limited to) the patents and patent applications set forth on Schedule A attached hereto, and any patent or patent applications related by priority claim to the patents and patent applications set forth on Schedule A; and

NOW, THEREFORE, in consideration of the foregoing and other good and valuable consideration, including as provided in the Purchase Agreement, the receipt and sufficiency of which is hereby acknowledged by the Parties, the Parties hereto, intending to be legally bound hereby, agree as follows:

Section 1. Definitions. All capitalized terms used but not defined in this Assignment shall have the meaning ascribed to such term in the Purchase Agreement.

Section 2. Assignment. Assignor hereby assigns, transfers and conveys to Assignee all of Assignor's right, title, and interest in, to, and under the Purchased IP, including the right to sue for past, present or future infringement, dilution or other violation of such Purchased IP, and to retain any damages and profits due or accrued for any such past, present or future infringement, dilution or other violation of such Purchased IP.

Section 3. Recording the Assignment. The Parties hereby authorize and request the relevant authorities at the United States Patent and Trademark Office and all applicable foreign agencies to record this Assignment and record Assignee as the owner of the Purchased IP.

Section 4. Purchase Agreement Governs. The Assignor and Assignee acknowledge and agree that the representations, warranties, covenants, agreements and indemnities contained in the Purchase Agreement shall not be superseded hereby and shall remain in full force and effect to the full extent provided therein. In the event of any conflict or inconsistency between the terms of the Purchase Agreement and the terms hereof, the terms of the Purchase Agreement shall govern.

Section 5. Counterparts. This Assignment may be executed in two (2) or more counterparts, all of which shall be considered an original, with the same effect as if the signatures thereto and hereto were upon the same instrument, and shall become effective when one (1) or more such counterparts have been signed by each party hereto and delivered (by e-mail or otherwise) to the other party. Signatures to this Assignment transmitted by electronic mail in "portable document format" ("pdf") form or by any other electronic means intended to preserve

the original graphic and pictorial appearance of a document, will have the same effect as physical delivery of the paper document bearing the original signatures.

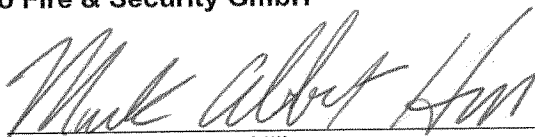
Section 6. Governing Law. This Assignment shall be governed by and construed in accordance with the laws of the State of Delaware, without regard to Delaware's principles of conflicts of law.

Section 7. Further Assurances. Assignor shall, at its own cost, take all further actions and execute all further documents as are reasonably requested by Assignee to effect and record this Assignment with all applicable authorities.

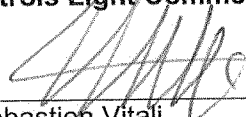
[Signature page follows.]

IN WITNESS WHEREOF, each party hereto has caused this Assignment to be duly executed on its behalf as of the day and year first above written.

Tyco Fire & Security GmbH

By: 
Name: Mark Albert Hill
Title: Managing Director

Johnson Controls Light Commercial IP GmbH

By: 
Name: Sébastien Vitali
Title: Chairman of the Management

[Signature Page to Patent Assignment Agreement]

Schedule A

Patents

(Attached)

Schedule A
Purchased Patents

Country	Title	Application No.	Filing Date	Patent No.	Grant Date
CA	Transition Temperature Adjustment User Interfaces	2,678,827	9/15/2009	2678827	12/5/2017
CA	Method And Apparatus For Noise Attenuation For Hvac&R System	2,845,520	3/11/2014	2,845,520	2/26/2019
CA	Graphical User Interface For A Display Screen Or Portion Thereof	168,995	6/14/2016	168995	3/23/2017
CA	Graphical User Interface For A Display Screen Or Portion Thereof	173,093	6/14/2016	173093	3/23/2017
CA	Display Screen with Graphical User Interface	173,094	6/14/2016	173094	3/23/2017
CA	Display Screen with Graphical User Interface	173,095	6/14/2016	173095	3/23/2017
CA	Heat Pump With Integrated Energy Recovery Ventilator (ERV)	3,039,389	4/8/2019		
CA	Modulating Reheat Operation Of HVAC System	3,095,390	10/5/2020	3095390	4/7/2021
CA	HVAC System With Baffles	3,100,238	11/20/2020		
CA	Blower Housing For Blower Of HVAC System	3,104,087	12/23/2020		
CA	A Control System For An HVAC System	3,130,458	9/10/2021		
CA	CONDENSATE PAN FOR A HEAT EXCHANGER	3154515	3/30/2022		
CA	HEAT EXCHANGER ARRANGEMENT FOR HVAC SYSTEM	3154520	3/30/2022		

Country	Title	Application No.	Filing Date	Patent No.	Grant Date
CA	QUICK HEAT ALGORITHM FOR MODULATING HEATING EQUIPMENT	3166228	6/30/2022		
CA	ANGLED BAFFLES FOR A HEAT EXCHANGER	3167797	7/14/2022		
CA	TOP FIRED OUTDOOR GAS HEAT EXCHANGER	3182774	11/22/2022		
CA	VARIABLE CAPACITY FURNACE	3187930	1/27/2023		
CA	PANEL ARRANGEMENT FOR HVAC SYSTEM	3188584	2/3/2023		
CA	SYSTEMS AND METHODS FOR OPERATING A FURNACE	3194549	3/29/2023		
CA	HEAT PUMP SYSTEMS AND METHODS WITH FROST MITIGATION	3200108	5/19/2023		
CA	HEAT EXCHANGER FOR HVAC SYSTEM	3202871	6/9/2023		
CA	SYSTEMS AND METHODS FOR OPERATING AN HVAC SYSTEM	3203862	6/16/2023		
CA	DRAIN PAN ADAPTER AND A DRAIN PAN	3209148	8/11/2023		
CA	MULTI-CIRCUIT HVAC SYSTEMS AND METHODS	3210249	8/25/2023		
CA	CONDENSATE COLLECTION ASSEMBLY	3,222,155	12/5/2023		
CA	ROTATABLE HANDLE FOR HVAC ACCESS PANELS	3197624	4/21//2023		
CN	Multichannel Heat Exchanger Fins	201010250407.1	8/6/2010	ZL201010250407.1	7/3/2014
CN	Multichannel Heat Exchangers Employing Flow Distribution Manifolds	201180028964.1	6/28/2011	ZL201180028964	6/17/2015
CN	Multi-Channel With The Deformable Wall Of The Tube	201180028980	8/2/2011	ZL201180028980.0	1/11/2015
CN	Having A Flow Guidance System Heat Pump System	201280009372	2/16/2012	103,380,335	9/14/2016
CN	Graphical User Interface for a Controller	201630264388.6	6/15/2016	ZL 201630264388.6	9/12/2017

Country	Title	Application No.	Filing Date	Patent No.	Grant Date
IN	ASYMMETRIC HEAT EXCHANGER	202311067913	10/10/2023		
IN	TRANSPORT FRIENDLY HVAC UNIT	202421016727	3/8/2024		
IN	FILTER RACK	202411024624	3/27/2024		
IN	HEAT PUMP PROTECTION AGAINST HIGH PRESSURE TRIPS IN DEFROST CYCLE	202421045310	6/12/2024		
IN	Graphical User Interface For A Display Screen Or Portion Thereof	284416			
JP	Graphical User Interface For A Display Screen Or Portion Thereof	2016012685	6/14/2016	1581888	7/24/2017
JP	Graphical User Interface For A Display Screen Or Portion Thereof	2017006325	6/14/2016	1589597	10/30/2017
JP	Graphical User Interface For A Display Screen Or Portion Thereof	2017006326	6/14/2016	1589598	10/30/2017
JP	Graphical User Interface For A Display Screen Or Portion Thereof	2017006327	6/14/2016	1589599	10/30/2017
US	System And Method For Using Hot Gas Re-Heat For Humidity Control	10/694,331	10/27/2003	7,062,930	6/20/2006
US	System And Method For Using Hot Gas Re-Heat For Humidity Control	10/929,757	8/30/2004	7,726,140	6/1/2010
US	Control Stability System For Moist Air Dehumidification Units And Method Of Operation	10/970,958	10/22/2004	7,219,505	5/22/2007
US	System And Method For Using Hot Gas Reheat For Humidity Control	11/027,402	12/30/2004	7,434,415	10/14/2008
US	Method For Refrigerant Pressure Control In Refrigeration Systems	11/159,878	6/23/2005	7,559,207	7/14/2009
US	Method And Apparatus For Dehumidification	11/165,106	6/23/2005	7,845,185	12/7/2010

Country	Title	Application No.	Filing Date	Patent No.	Grant Date
US	Extended Venturi Fan Ring	11/201,984	8/11/2005	7,481,619	1/27/2009
US	Method And Apparatus To Sense And Control Compressor Operation In An HVAC System	11/327,084	1/6/2006	7,562,536	7/21/2009
US	Method And Apparatus To Sense And Establish Operation Mode For An Hvac Control	11/337,727	1/23/2006	7,849,698	12/14/2010
US	Control Stability System For Moist Air Dehumidification Units And Method Of Operation	11/697,872	4/9/2007	7,694,527	4/13/2010
US	Condensate Pan With Condensate Trap	11/856,889	9/18/2007	8,056,553	11/15/2011
US	Three-In-One Door Bracket	11/971,498	1/9/2008	7,798,451	9/21/2010
US	Two-In-One Blower And Electrical Controls Bracket	11/971,514	1/9/2008	8,387,935	3/5/2013
US	Adjustable Motor Base For An Hvac&R Blower Motor	12/019,080	1/24/2008	7,891,210	2/22/2011
US	Multichannel Evaporator With Flow Separating Manifold	12/040,559	2/29/2008	7,832,231	11/16/2010
US	Multichannel Evaporator With Flow Mixing Multichannel Tubes	12/040,588	2/29/2008	7,802,439	9/28/2010
US	Heat Exchanger	12/141,366	6/18/2008	8,393,318	3/12/2013
US	HVAC System Controller Configuration	12/234,378	9/19/2008	8,078,326	12/13/2011
US	System And Method For Using Hot Gas Reheat For Humidity Control	12/247,463	10/8/2008	7,770,411	8/10/2010
US	Thermostat Housing	29/335,419	4/15/2009	D610,475	2/23/2010
US	Apparatus To Sense And Control Compressor Operation In An Hvac System	12/501,075	7/10/2009	8,011,197	9/6/2011

Country	Title	Application No.	Filing Date	Patent No.	Grant Date
US	Adjustable Filter Racks	12/542,363	8/17/2009	8,211,198	7/3/2012
US	Transition Temperature Adjustment User Interfaces	12/560,238	9/15/2009	8,332,075	12/11/2012
US	Multichannel Heat Exchangers Employing Flow Distribution Manifolds	13/170,016	6/27/2011	9,267,737	2/23/2016
US	Multichannel Heat Exchanger Tubes With Flow Path Inlet Sections	13/170,066	6/27/2011	9,151,540	10/6/2015
US	Condensate Pan With Condensate Trap	13/295,556	11/14/2011	10,145,581	12/4/2018
US	HVAC Unit With Hot Gas Reheat	13/370,098	2/9/2012	9,322,581	4/26/2016
US	Heat Exchanger	13/768,123	2/15/2013	8,955,507	2/17/2015
US	Heat Pump System With A Flow Directing System	13/967,604	8/15/2013	9,752,803	9/5/2017
US	Method And Apparatus For Noise Attenuation For HVAC&R System	14/582,292	12/24/2014	10,337,775	7/2/2019
US	Heat Exchanger	14/594,834	1/12/2015	10,024,608	7/17/2018
US	Intake Drain System And Method	14/618,961	2/10/2015	9,631,821	4/25/2017
US	Furnace Combustion System And Method	14/704,751	5/5/2015	10,119,701	11/6/2018
US	Integrated Filter Support	14/849,331	9/9/2015	9,827,520	11/28/2017
US	Multichannel Heat Exchanger Tubes With Flow Path Inlet Sections	14/850,774	9/10/2015	10,371,451	8/6/2019
US	Display Screen Or Portion Thereof With Graphical User Interface	29/548,668	12/15/2015	D824,921	8/7/2018
US	Systems and Methods for Adaptive Control of Staging for Outdoor Modulating Unit	14/996,222	1/14/2016	10,047,967	8/14/2018

Country	Title	Application No.	Filing Date	Patent No.	Grant Date
US	HVAC Unit With Hot Gas Reheat	15/089,122	4/1/2016	10,072,854	9/11/2018
US	Thermostat With Bi-Directional Communications Interface For Monitoring HVAC Equipment	15/260,298	9/8/2016	11,087,417	8/10/2021
US	Thermostat With User Interface Features	15/260,299	9/8/2016	10,769,735	9/8/2020
US	Thermostat Having Network Connected Branding Features	15/260,301	9/8/2016	10,510,127	12/17/2019
US	HVAC Unit With Hot Gas Reheat	15/291,970	10/12/2016	10,101,041	10/16/2018
US	HVAC Unit With Hot Gas Reheat	15/291,975	10/12/2016	10,247,430	4/2/2019
US	HVAC Unit with Hot Gas Reheat	15/291,980	10/12/2016	10,174,958	1/8/2019
US	Thermostat With Software Update Features	15/340,930	11/1/2016	10,430,175	10/1/2019
US	Bracket Assembly For A Heat Exchanger	15/398,599	1/4/2017	10,451,363	10/22/2019
US	Foam Substructure For A Heat Exchanger	15/398,605	1/4/2017	10,197,294	2/5/2019
US	Rain Shield For A Heat Exchanger Component	15/398,610	1/4/2017	9,976,759	5/22/2018
US	Systems and Methods for Electronic Expansion Valve Control	15/417,186	1/26/2017	10,612,826	4/7/2020
US	Intake Drain System And Method	15/487,196	4/13/2017	10,302,311	5/28/2019
US	ElectroMagnetic Access Panel Latches	15/608,742	5/30/2017	10,738,517	8/11/2020
US	Heat Exchanger Filter Assembly	15/611,601	6/1/2017	10,589,208	3/17/2020
US	Adjustable Inlet Header For Heat Exchanger Of An Hvac System	15/611,605	6/1/2017	10,563,895	2/18/2020
US	Finned Heat Exchanger U-Bends, Manifolds, And Distributor Tubes	15/614,396	6/5/2017	10,520,255	12/31/2019

Country	Title	Application No.	Filing Date	Patent No.	Grant Date
US	Ultrasonic Enhanced Heat Exchanger Systems And Methods	15/619,245	6/9/2017	10,563,931	2/18/2020
US	Systems and Methods for Auto Configuration Modes for a Thermostat	15/633,381	6/26/2017	10,948,213	3/16/2021
US	HVAC Furnace Condensate Removal System	15/640,240	6/30/2017	10,584,896	3/10/2020
US	Enhanced Heat Transfer Surfaces For Heat Exchangers	15/645,875	7/10/2017	11,022,340	6/1/2021
US	System And Method For Capture Of Waste Heat In An HVAC Unit	15/648,328	7/12/2017	10,605,469	3/31/2020
US	Combined Suction Header And Accumulator Unit	15/655,584	7/20/2017	10,323,869	6/18/2019
US	Furnace For A Rooftop Unit	15/660,768	7/26/2017	10,502,454	12/10/2019
US	Electronic Expansion Valve (EEV) Control System And Method	15/660,798	7/26/2017	10,801,760	10/13/2020
US	Indoor And Outdoor Units For An HVAC System	15/666,805	8/2/2017	10,401,046	9/3/2019
US	Freezestat Assembly	15/710,543	9/20/2017	10,557,661	2/11/2020
US	Systems And Methods For Pivotal Evaporator Coils	15/711,911	9/21/2017	10,415,848	9/17/2019
US	Heat Exchanger Coil Prototyping System	15/716,193	9/26/2017	10,634,437	4/28/2020
US	Heat Exchanger For A HVAC Unit	15/717,743	9/27/2017	11,274,861	3/15/2022
US	Parallel Capillary Expansion Tube Systems And Methods	15/718,282	9/28/2017	10,488,089	11/26/2019
US	Parallel Capillary Expansion Tube Systems And Methods	15/718,291	9/28/2017	10,502,468	12/10/2019
US	Heating, Ventilation, And Air Conditioning System With Primary And Secondary Heat Transfer Loops	15/890,120	2/6/2018	11,105,539	8/31/2021
US	Heating, Ventilation, And Air Conditioning Control System	15/897,890	2/15/2018	10,845,064	11/24/2020

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US	HVAC System With Multiple Compressors And Heat Exchangers	15/901,953	2/22/2018	10,753,663	8/25/2020
US	Vapor Compression System With Compressor Control Based On Temperature And Humidity Feedback	15/902,082	2/22/2018	10,684,053	6/16/2020
US	Condenser Unit With Fan	15/913,309	3/6/2018	10,962,275	3/30/2021
US	Sensor Management Systems For HVAC Systems	15/914,732	3/7/2018	10,704,797	7/7/2020
US	HVAC Filter Locking Systems And Methods	15/916,098	3/8/2018	11,415,339	8/16/2022
US	Control Of HVAC Unit Based On Sensor Status	15/920,129	3/13/2018	10,712,033	7/14/2020
US	Remote Clear Of An HVAC System	15/920,139	3/13/2018	10,663,936	8/29/2019
US	Fault Condition Management For Heating, Ventilation, And Air Conditioning (HVAC) Systems	15/920,728	3/14/2018	10,788,231	9/29/2020
US	Portable Thermostat Systems And Methods	15/925,535	3/19/2018	10,955,162	3/23/2021
US	Systems And Methods For Pressure Control In A Heating, Ventilation, And Air Conditioning (HVAC) System	15/926,053	3/20/2018	11,156,394	10/26/2021
US	Configuration Management Systems For Heating, Ventilation, And Air Conditioning (HVAC) Systems	15/926,130	3/20/2018	10,612,803	4/7/2020
US	Coil Heating Systems For Heat Pump Systems	15/927,475	3/21/2018	10,914,503	2/9/2021
US	Damping Component For A Fan Guard	15/933,157	3/22/2018	11,268,540	3/8/2022
US	Heat Exchanger With Multiple Circuits	15/935,948	3/26/2018	11,067,319	7/20/2021
US	Variable Circuitry Heat Exchanger System	15/937,630	3/27/2018	10,830,538	11/10/2020

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US	Heat Pump With Integrated Energy Recovery Ventilator (ERV)	15/953,259	4/13/2018	11,073,301	10/17/2019
US	Filter Track Assembly For HVAC Units	15/960,318	4/23/2018	10,808,950	10/20/2020
US	Systems For Detecting And Positioning Of Reversing Valve	15/965,543	4/27/2018	10,830,501	11/10/2020
US	System And Method For Heat Exchanger Of An HVAC&R System	15/975,661	5/9/2018	11,022,382	6/1/2021
US	Multi-Zone System With Software Update Features	15/983,645	5/18/2018	10,747,527	8/18/2020
US	Rain Shield For A Heat Exchanger Component	15/985,444	5/21/2018	10,830,459	11/10/2020
US	HVAC High Voltage Powerline Communication Systems And Methods	15/988,795	5/24/2018	10,648,686	5/12/2020
US	HVAC Zone Schedule Management Systems And Methods	15/991,965	5/29/2018	10,830,479	11/21/2019
US	Control Board Systems And Methods For Diagnosis Of HVAC Components	15/991,985	5/29/2018	10,830,488	11/10/2020
US	Ultrasonic Condensate Management System And Method	15/994,879	5/31/2018	10,941,961	3/9/2021
US	Collapsible Roof Top Unit Systems And Methods	15/997,266	6/4/2018	11,085,666	8/10/2021
US	Condensate Recycling System For HVAC System	16/000,291	6/5/2018	10,816,236	10/27/2020
US	HVAC Functionality Restoration Systems And Methods	16/000,672	6/5/2018	11,002,453	5/11/2021
US	HVAC Systems Having Air-Tight Access Doors	16/002,844	6/7/2018	10,829,986	11/10/2020
US	Heat Pump With Hot Gas Reheat Systems And Methods	16/008,939	6/14/2018	10,948,203	3/16/2021
US	Single Zone Variable Air Volume Control Systems And Methods	16/014,735	6/21/2018	11,429,122	8/30/2022
US	Adjustable Duct For HVAC System	16/034,259	7/12/2018	11,204,192	12/21/2021

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US	Collapsible Vent Hood For HVAC Unit	16/037,804	7/17/2018	11,573,029	2/7/2023
US	Interlaced Heat Exchanger	16/040,269	7/19/2018	11,047,625	6/29/2021
US	Sensor Well For HVAC Unit	16/047,809	7/27/2018	11,143,559	10/12/2021
US	Flame Control Systems And Methods For Furnaces	16/052,271	8/1/2018	10,753,623	8/25/2020
US	Liquid Drainage Systems And Methods	16/102,513	8/13/2018	10,830,490	11/10/2020
US	HVAC Unit Centering Systems And Methods	16/113,994	8/27/2018	11,112,129	9/7/2021
US	Interface For A Plenum Fan	16/114,004	8/27/2018	11,268,537	3/8/2022
US	Systems And Methods For Adjustment Of Heat Exchanger Position	16/116,753	8/29/2018	10,921,015	2/16/2021
US	HVAC Access Panel Latch Systems And Methods	16/116,757	8/29/2018	10,830,460	11/10/2020
US	Systems And Methods For Providing Airflow In Furnace Systems	16/122,721	9/5/2018	10,995,968	5/4/2021
US	Enclosure With Adjustable Louver Panels	16/126,927	9/10/2018	11,054,172	7/6/2021
US	Fan Blade Winglet	16/129,604	9/12/2018	11,022,140	6/1/2021
US	Liquid Level Sensor Mounting Systems And Methods	16/136,040	9/19/2018	11,255,571	2/22/2022
US	Cover For A Condensate Collection Trough	16/137,267	9/20/2018	11,255,594	2/22/2022
US	Heating, Ventilation, And/Or Air Conditioning Network Address Control Systems	16/144,154	9/27/2018	10,845,080	11/24/2020
US	Adjustable Heat Exchanger	16/146,051	9/28/2018	11,609,005	3/21/2023
US	Convertible Access Panel Latch Assembly	16/146,074	9/28/2018	11,542,723	1/3/2023

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US	Heat Exchanger Tube With Flattened Draining Dimple	16/146,736	9/28/2018	11,498,162	11/15/2022
US	Low Load Mode Of HVAC System	16/186,107	11/9/2018	10,914,487	2/9/2021
US	Systems And Methods For Gas Valve Assembly Of An HVAC System	16/186,124	11/9/2018	11,536,466	12/27/2022
US	Draft Inducer Motor Control System	16/195,620	11/19/2018	11,441,816	9/13/2022
US	Multi-Circuit HVAC System	16/206,293	11/30/2018	10,935,263	3/2/2021
US	Mobile Air Conditioning Unit	16/215,274	12/10/2018	11,320,160	5/3/2022
US	Adjustable Filter Assemblies For HVAC Systems	16/218,105	12/12/2018	11,266,939	3/8/2022
US	Supplemental Cooling For An HVAC System	16/234,326	12/27/2018	11,162,717	11/2/2021
US	Systems And Methods For Dynamic Coil Calibration	16/241,594	1/7/2019	10,830,472	11/10/2020
US	Bearing Assembly For A Fan Of An HVAC System	16/247,355	1/14/2019	11,125,275	9/21/2021
US	Enclosure For A Controller Of An HVAC System	16/248,634	1/15/2019	11,371,738	6/28/2022
US	Heat Exchanger Fin Surface Enhancement	16/250,902	1/17/2019	11,236,951	2/1/2022
US	Systems And Methods For Delayed Fluid Recovery	16/252,243	1/18/2019	11,629,866	4/18/2023
US	Integrated Control Box For HVAC Units	16/259,892	1/28/2019	10,921,016	2/16/2021
US	HVAC Cable Grounding Systems And Methods	16/259,900	1/28/2019	10,830,482	11/10/2020
US	Cutoff For A Blower Housing	16/261,351	1/29/2019	11,480,192	10/25/2022
US	HVAC Unit Fan Control Systems And Methods	16/265,734	2/1/2019	11,143,428	10/12/2021
US	HVAC Fan Housing Systems And Methods	16/267,074	2/4/2019	11,747,041	9/5/2023
US	Foam Substructure For A Heat Exchanger	16/267,081	2/4/2019	11,073,293	7/27/2021

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US	Low Ambient Operation Of HVAC System	16/274,057	2/12/2019	11,009,272	5/18/2021
US	Service Plate For A Heat Exchanger Assembly	16/282,940	2/22/2019	11,454,420	9/27/2022
US	HVAC Unit With Hot Gas Reheat	16/284,885	2/25/2019	10,760,798	9/1/2020
US	Air Intake Filter Assemblies With A Multi-Level Fine Filter For Heating, Ventilation, And/Or Air Conditioning (HVAC) Systems	16/287,804	2/27/2019	11,732,924	8/22/2023
US	Air Intake Filter Assemblies With Actuatable Filter Slats For Heating, Ventilation, And/Or Air Conditioning (HVAC) Systems	16/287,809	2/27/2019	11,759,742	9/19/2023
US	HVAC Fan Assembly Air Inlet Systems And Methods	16/288,971	2/28/2019	10,982,688	4/20/2021
US	Composite Interconnection Conduits For HVAC Systems	16/289,102	2/28/2019	11,118,795	9/14/2021
US	Adjustable Filter Track For HVAC System	16/289,289	2/28/2019	11,439,937	9/13/2022
US	Adjustable Filter Track For HVAC System	16/289,291	2/28/2019	11,351,493	6/7/2022
US	Adjustable Filter Track For HVAC System	16/289,294	2/28/2019	11,090,595	8/17/2021
US	Control Unit For Multiple Variable Frequency Drives	16/293,849	3/6/2019	11,391,486	7/19/2022
US	Fan Assembly For An HVAC Unit	16/298,886	3/11/2019	11,162,692	11/2/2021
US	Stacking Bracket For An HVAC Unit	16/351,304	3/12/2019	11,002,464	5/11/2021
US	Condensate Drain System For A Furnace	16/352,416	3/13/2019	11,209,187	12/28/2021
US	Diverter Baffle For A Blower	16/352,460	3/13/2019		
US	Curb Assembly For HVAC System	16/366,164	3/27/2019		
US	Heating Unit With A Partition	16/366,750	3/27/2019	11,920,831	

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US	Auxiliary Heat Exchanger For HVAC System	16/366,861	3/27/2019	11,397,014	7/26/2022
US	Systems And Methods For Transitioning Between A Cooling Operating Mode And A Reheat Operating Mode	16/370,208	3/29/2019	11,125,449	9/21/2021
US	HVAC Unit Utilizing Selectively Modulated Flow Rates With Hot Gas Reheat Circuit	16/370,292	3/29/2019		10/1/2020
US	Systems And Methods For Electronically Locking HVAC Doors	16/380,810	4/10/2019	11,421,444	8/23/2022
US	Temperature Sensor Clamping Systems And Methods	16/385,967	4/16/2019	11,378,464	7/5/2022
US	Refrigerant Discharge Heat Exchange System And Method	16/386,789	4/17/2019	11,231,212	1/25/2022
US	Sensor Mount For HVAC System	16/388,654	4/18/2019	11,339,992	5/24/2022
US	Motor Mount For HVAC System	16/395,039	4/25/2019	10,968,920	4/6/2021
US	Variable Geometry Of A Housing For A Blower Assembly	16/397,801	4/29/2019	11,236,762	2/1/2022
US	Modular Cutoff For A Blower Housing	16/421,195	5/23/2019	11,131,320	9/28/2021
US	Fuse Bank For HVAC Systems	16/423,796	5/28/2019	11,451,014	9/20/2022
US	Panel For An HVAC System	16/430,303	6/3/2019	11,105,516	8/31/2021
US	Heater Assembly Of A Heating Unit	16/434,007	6/6/2019	11,573,028	2/7/2023
US	Intake Hood System For An HVAC Unit	16/436,534	6/10/2019	11,739,978	8/29/2023
US	Curb Assembly For HVAC System	16/441,535	6/14/2019	11,236,928	2/1/2022
US	Energy Recovery System For HVAC System	16/446,366	6/19/2019	11,041,651	6/22/2021

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US	System And Method For Modulating Hot Gas Reheat Utilizing Multiple Compressor Systems	16/451,916	6/25/2019	11,473,809	10/18/2022
US	Furnace Control Systems And Methods	16/530,337	8/2/2019	11,320,213	5/3/2022
US	Indoor And Outdoor Units For An HVAC System	16/557,750	8/30/2019	11,162,704	11/2/2021
US	Feedback Warning System Using Inducer Pulse Width Modulation Signal	16/569,353	9/12/2019	11,781,785	10/10/2023
US	Adjustable Motor Mount For HVAC System	16/590,080	10/1/2019	11,098,922	8/24/2021
US	Blower Properties Used For User Warning	16/591,205	10/2/2019		
US	System And Method For Faulting To Return Air Sensor	16/591,214	10/2/2019	11,761,656	9/19/2023
US	End Cap For Panel Assembly Of An HVAC System	16/591,408	10/2/2019	11,415,376	8/16/2022
US	Reversible Valve For HVAC System	16/591,412	10/2/2019	11,933,523	3/19/2024
US	Motor Mount For HVAC System	16/592,147	10/3/2019	11,156,381	10/26/2021
US	Air Intake Guard Of A Heating, Ventilation, And/Or Air Conditioning (HVAC) System	16/592,571	10/3/2019	11,280,503	3/22/2022
US	Modulating Reheat Operation Of HVAC System	16/595,136	10/7/2019	11,313,600	4/26/2022
US	Drive Belt Tensioner Systems And Methods	16/595,221	10/7/2019	11,499,607	11/15/2022
US	Drive Belt Tensioner Systems And Methods	16/595,227	10/7/2019	11,603,910	3/14/2023
US	Drive Belt Tensioner Systems And Methods	16/595,232	10/7/2019	11,493,113	11/8/2022
US	Bracket Assembly For An HVAC System	16/596,485	10/8/2019	11,668,325	6/6/2023
US	Divider Panel For HVAC System	16/664,395	10/25/2019	11,754,331	9/12/2023

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US	Adjustable Inlet Header For Heat Exchanger Of An HVAC System	16/670,212	10/31/2019	11,506,434	11/22/2022
US	Alternative Feedback Usage For HVAC System	16/684,266	11/14/2019	11,221,155	1/11/2022
US	HVAC System With Baffles	16/689,843	11/20/2019	11,761,679	9/19/2023
US	Thermostat Having Network Connected Branding Features	16/698,365	11/27/2019	11,080,800	8/3/2021
US	Condenser Coil Arrangement	16/700,668	12/2/2019	11,262,112	3/1/2022
US	Multi-Position Condensation Kit And Bracket	16/706,215	12/6/2019	11,725,888	8/15/2023
US	Furnace For A Rooftop Unit	16/709,657	12/10/2019	11,486,604	11/1/2022
US	Drain Pan For HVAC System	16/723,255	12/20/2019	11,674,740	6/13/2023
US	Adjustable Motor Mount	16/723,293	12/20/2019	11,536,471	12/27/2022
US	Drain Spout For Drain Of HVAC System	16/723,327	12/20/2019	11,674,741	6/13/2023
US	Blower Housing For Blower Of HVAC System	16/725,924	12/23/2019	11,493,056	11/8/2022
US	Finned Heat Exchanger U-Bends, Manifolds, And Distributor Tubes	16/730,302	12/30/2019	11,604,032	3/14/2023
US	Panel Restrictor For HVAC System	16/733,133	1/2/2020	11,397,012	7/26/2022
US	Damper Blade Assembly For HVAC System	16/733,146	1/2/2020	11,655,997	5/23/2023
US	Drain Pan With Overflow Features	16/736,701	1/7/2020	11,255,572	2/22/2022
US	Air Flow Amplifier For HVAC System	16/741,527	1/13/2020	11,781,763	10/10/2023
US	Base Pan For HVAC System	16/742,696	1/14/2020	11,635,214	4/25/2023
US	Movable Fan Assembly Of A Heating, Ventilation, And/Or Air Conditioning (HVAC) Unit	16/744,015	1/15/2020	11,549,694	1/10/2023
US	Slidable Electric Control Box For Rooftop Unit	16/780,255	2/3/2020	11,359,824	6/14/2022

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US	HVAC System With Baffle In Side Discharge Configuration	16/795,283	2/19/2020	11,555,629	1/17/2023
US	Fuse Block Mounting Bracket For Transformer	16/796,737	2/20/2020	11,532,431	12/20/2022
US	Diverter Plate For Furnace Of HVAC System	16/804,864	2/28/2020	11,460,221	10/4/2022
US	Remote Access Control Of HVAC System	16/827,369	3/23/2020	11,703,238	7/18/2023
US	Systems And Methods For Communication In HVAC System	16/833,000	3/27/2020		
US	Systems And Methods To Operate An HVAC System Based On Sound Level	16/836,701	3/31/2020	11,300,321	4/12/2022
US	Configuration Management Systems For Heating, Ventilation, And Air Conditioning (HVAC) Systems	16/841,275	4/6/2020	11,313,572	4/26/2022
US	Condenser Fan Operation For HVAC System	16/874,200	5/14/2020		
US	Systems And Methods Of Accessible Belt Guard	16/882,324	5/22/2020	11,371,599	6/28/2022
US	Vapor Compression System With Compressor Control Based On Temperature And Humidity Feedback	16/900,455	6/12/2020	11,333,416	5/17/2022
US	HVAC Unit With Hot Gas Reheat	17/008,365	8/31/2020	11,867,413	1/9/2024
US	Control Board Systems And Methods For Diagnosis Of HVAC Components	17/073,812	10/19/2020	11,499,744	11/15/2022
US	Systems And Methods For Dynamically Configurable Thermostat Installation	17/081,658	10/27/2020	11,402,115	8/2/2022
US	Lifting Lug For HVAC Unit	17/081,787	10/27/2020		1/30/2024
US	Systems For Detecting And Positioning Of Reversing Valve	17/093,448	11/9/2020	11,761,684	9/19/2023
US	HVAC Systems Having Air-Tight Access Doors	17/093,508	11/9/2020	11,384,594	7/12/2022

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US	Heating, Ventilation, And Air Conditioning Control System	16/953,122	11/19/2020	11,906,192	2/20/2024
US	Staging Algorithm For Two Stage Heating/Cooling Equipment	17/151,186	1/17/2021	11,656,590	5/23/2023
US	Systems And Methods For Reheat Control Of An HVAC System	17/152,541	1/19/2021	11,761,646	9/19/2023
US	Electrical Housing For Heating, Ventilation, And/Or Air Conditioning (HVAC) System	17/162,926	1/29/2021	11,662,105	5/30/2023
US	Portable Thermostat Systems And Methods	17/176,978	2/16/2021	11,879,653	1/23/2024
US	Flash Gas Bypass Systems And Methods For An HVAC System	17/183,144	2/23/2021	11,686,513	6/27/2023
US	Motor Jacket For HVAC System	17/191,266	3/3/2021	11,949,316	4/2/2024
US	HVAC System Flame Sensor	17/212,938	3/25/2021	11,635,232	4/25/2023
US	Heat Exchanger Arrangement For HVAC System	17/217,891	3/30/2021		
US	Condensate Pan For A Heat Exchanger	17/217,898	3/30/2021	11,761,674	9/19/2023
US	Condensate Drain System Of An HVAC Unit	17/235,703	4/20/2021		
US	OUTDOOR AIR HOOD ASSEMBLY WITH AN INLET HOOD	17/235,726	4/20/2021	11,927,351	3/12/2024
US	SYSTEM AND METHOD OF COOLING OF HEAT GENERATING UNITS IN AN HVAC UNIT	17/235,740	4/20/2021		10/28/2021
US	SIDE PANEL ASSEMBLY FOR ROOF TOP UNITS	17/236,802	4/21/2021	11,686,501	6/27/2023
US	Condenser Fan Rotation Restriction System	17/308,645	5/5/2021	11,898,769	2/13/2024
US	HVAC Functionality Restoration Systems And Methods	17/308,836	5/5/2021	11,686,490	6/27/2023
US	Tube Guide For HVAC System	17/326,134	5/20/2021	11,859,860	1/2/2024
US	Thermostat Having Network Connected Branding Features	17/332,482	5/27/2021		

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US	Reheat Operation For Heat Pump System	17/344,675	6/10/2021	11,747,053	9/5/2023
US	Modulating Reheat Functionality For Hvac System	17/344,677	6/10/2021	11,686,489	6/27/2023
US	Reheat Operation For Heat Pump System	17/344,678	6/10/2021	11,859,880	1/2/2024
US	Mistake-Proof Electrical Connectors For HVAC Systems	17/348,001	6/15/2021	11,641,079	5/2/2023
US	Interlaced Heat Exchanger	17/360,954	6/28/2021	11,614,285	3/28/2023
US	QUICK HEAT ALGORITHM FOR MODULATING HEATING EQUIPMENT	17/365,814	7/1/2021	11,971,187	4/30/2024
US	Angled Baffles For A Heat Exchanger	17/377,066	7/15/2021	12,007,184	6/11/2024
US	Recovery Mode Algorithm For Two Stage HVAC Equipment	17/382,142	7/21/2021	11635223	4/25/2023
US	Heating, Ventilation, And Air Conditioning System With Primary And Secondary Heat Transfer Loops	17/412,008	8/25/2021	11,906,211	2/20/2024
US	BASE PAN ASSEMBLY	17/464,495	9/1/2021		3/3/2022
US	CONTROL SYSTEM FOR AN HVAC SYSTEM	17/471,907	9/10/2021		
US	Composite Interconnection Conduits For HVAC Systems	17/473,795	9/13/2021	11,754,298	9/12/2023
US	Heat Exchanger For HVAC Unit	17/477,298	9/16/2021		
US	HVAC Unit Fan Control Systems And Methods	17/498,573	10/11/2021	11927358	3/12/2024
US	Systems And Methods For Monitoring Operation Of A Furnace System	17/512,471	10/27/2021	11,761,630	9/19/2023
US	Systems And Methods For Operating A Furnace System	17/512,481	10/27/2021		
US	Top Fired Outdoor Gas Heat Exchanger	17/534,192	11/23/2021		

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US	Heat Exchanger Assembly Systems And	17/541,076	12/2/2021		
US	Partition Wall For An HVAC Device	17/544,732	12/7/2021	11,988,409	5/21/2024
US	Blower Assembly Systems And Methods	17/545,849	12/8/2021	11892013	2/6/2024
US	Condensate Drain System For A Furnace	17/562,840	12/27/2021	12,025,347	7/2/2024
US	Alternative Feedback Usage For HVAC System	17/572,431	1/10/2022	11,874,006	1/16/2024
US	Curb Assembly For HVAC System	17/584,149	1/25/2022	11,725,845	8/15/2023
US	Panel Arrangement For HVAC System	17/592,385	2/3/2022	11,953,215	4/9/2024
US	Interface For A Plenum Fan	17/685,069	3/2/2022	11,959,495	4/16/2024
US	Heat Exchanger For A HVAC Unit	17/694,426	3/14/2022	11,920,833	3/5/2024
US	Filter Track System For HVAC System	17/696,722	3/16/2022		
US	Systems And Methods For Operating A Furnace	17/707,829	3/29/2022		
US	HEATER ARRANGEMENT FOR HVAC SYSTEM	17/711,677	4/1/2022		
US	ROTATABLE HANDLE FOR HVAC ACCESS PANELS	17/726,353	4/21/2022		
US	HOUSING FOR A HEATING, VENTILATION, AND/OR AIR CONDITIONING (HVAC) UNIT	17/732,183	4/28/2022		
US	Shield For HVAC Drain Pan	17/732,198	4/28/2022		
US	AIR DAM FOR CONDENSATE DRAIN PAN	17/733,569	4/29/2022		
US	Condensate Collection Assembly	17/733,628	4/29/2022		
US	VARIABLE CAPACITY FURNACE CONTROL	17/752,525	5/24/2022		

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US	WORKING FLUID ELIMINATOR FOR A HEATING, VENTILATION, AND/OR AIR CONDITIONING (HVAC) SYSTEM	17/834,757	6/7/2022	12,013,138	6/18/2024
US	HEAT EXCHANGER FOR HVAC SYSTEM	17/837,298	6/10/2022		
US	Auxiliary Heat Exchanger For HVAC System	17/870,442	7/21/2022	11,852,372	12/26/2023
US	HVAC FILTER LOCKING SYSTEMS AND METHODS	17/887,816	8/15/2022	11,965,671	4/23/2024
US	SYSTEMS AND METHODS FOR ELECTRONICALLY LOCKING HVAC DOORS	17/892,993	8/22/2022		
US	SINGLE ZONE VARIABLE AIR VOLUME CONTROL SYSTEMS AND METHODS	17/894,923	8/24/2022		
US	CONTROL SYSTEM FOR AN HVAC SYSTEM	17/903,752	9/6/2022		
US	DRAFT INDUCER MOTOR CONTROL SYSTEM	17/943,012	9/12/2022		
US	SYSTEM AND METHOD FOR MODULATING HOT GAS REHEAT UTILIZING MULTIPLE COMPRESSOR SYSTEMS	17/943,454	9/13/2022	12,013,140	6/18/2024
US	ENERGY EFFICIENT HVAC SYSTEM WITH COUNTERFLOW ARRANGEMENT	17/936,716	9/29/2022	11,719,471	8/8/2023
US	DIVERTER PLATE FOR FURNACE OF HVAC SYSTEM	17/959,151	10/3/2022		
US	BLOWER HOUSING FOR BLOWER OF HVAC SYSTEM	17/982,309	11/7/2022	11,713,771	8/1/2023
US	CONTROL BOARD SYSTEMS AND METHODS FOR DIAGNOSIS OF HVAC COMPONENTS	17/986,692	11/14/2022		
US	CONDENSATE COLLECTION ASSEMBLY	18/075,133	12/5/2022		
US	ADJUSTABLE MOTOR MOUNT	18/069,754	12/21/2022	11,739,955	8/29/2023

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US	THERMOELECTRIC HEAT EXCHANGER FOR AN HVAC SYSTEM	18/095,415	1/10/2023		
US	ARRANGEMENT FOR HEAT EXCHANGER	18/099,189	1/19/2023		
US	HEAT PUMP CONTROL SYSTEMS AND METHODS	18/101,988	1/26/2023		
US	VARIABLE CAPACITY FURNACE	18/101,990	1/26/2023		
US	ENERGY EFFICIENT HEAT PUMP SYSTEMS AND METHODS	18/182,012	3/10/2023	11,906,188	2/20/2024
US	INTERLACED HEAT EXCHANGER	18/126,905	3/27/2023		
US	RECOVERY MODE ALGORITHM FOR TWO STAGE HVAC EQUIPMENT	18/138,615	4/24/2023		
US	ENERGY EFFICIENT HEAT PUMP WITH VALVE SYSTEM AND COUNTERFLOW ARRANGEMENT	18/306,819	4/25/2023	12,018,871	6/25/2024
US	ENERGY EFFICIENT HEAT PUMP WITH COUNTERFLOW HEAT TRANSFER ARRANGEMENT	18/307,668	4/26/2023		
US	ENERGY EFFICIENT HEAT PUMP WITH FLOW REGULATION SYSTEM	18/308,268	4/27/2023		
US	HEAT PUMP SYSTEMS AND METHODS WITH FROST MITIGATION	18/199,139	5/18/2023		
US	STAGING ALGORITHM FOR TWO STAGE HEATING/COOLING EQUIPMENT	18/201,026	5/23/2023		
US	Electrical Housing For Heating, Ventilation, And/Or Air Conditioning (HVAC) System	18/202,160	5/25/2023		
US	BRACKET ASSEMBLY FOR AN HVAC SYSTEM	18/205,965	6/5/2023		
US	DRAIN PAN FOR HVAC SYSTEM	18/208,764	6/12/2023		

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US	SYSTEMS AND METHODS FOR OPERATING AN HVAC SYSTEM	18/210,735	6/16/2023		
US	MULTI-CONFIGURATION DRAIN PAN ASSEMBLY	18/337,271	6/19/2023		
US	MODULATING REHEAT FUNCTIONALITY FOR HVAC SYSTEM	18/214,383	6/26/2023		
US	Intake Hood System For An HVAC Unit	18/351,279	7/12/2023		
US	FURNACE CONTROL SYSTEMS AND METHODS	18/227,190	7/27/2023		
US	HVAC SYSTEM WITH OUTDOOR FAN SPEED CONTROL BYPASS	18/227,230	7/27/2023		
US	BLOWER HOUSING FOR BLOWER OF HVAC SYSTEM	18/228,525	7/31/2023	12,025,152	7/2/2024
US	A FAN UNIT FOR AN HVAC SYSTEM	18/230,063	8/3/2023		
US	ENERGY EFFICIENT HVAC SYSTEM WITH COUNTERFLOW ARRANGEMENT	18/231,132	8/7/2023		
US	HEAT EXCHANGER WITH SPRING TUBE COIL	18/232,074	8/9/2023		
US	DRAIN PAN ADAPTER AND A DRAIN PAN	18/447,954	8/10/2023		
US	AIR INTAKE FILTER ASSEMBLIES WITH A MULTI-LEVEL FINE FILTER FOR HEATING, VENTILATION, AND/OR AIR CONDITIONING (HVAC) SYSTEMS	18/236,298	8/21/2023		
US	MULTI-CIRCUIT HVAC SYSTEMS AND METHODS	18/237,827	8/24/2023		
US	Composite Interconnection Conduits For HVAC Systems	18/244,812	9/11/2023		
US	System And Method For Faulting To Return Air Sensor	18/369,590	9/18/2023		
US	Systems For Detecting And Positioning Of Reversing Valve	18/369,676	9/18/2023		
US	FEEDBACK WARNING SYSTEM USING INDUCER PULSE WIDTH MODULATION SIGNAL	18/378,089	10/9/2023		

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US	Air Flow Amplifier For HVAC System	18/483,387	10/9/2023		
US	COIL GUARD FOR AN HVAC SYSTEM	63/543,469	10/10/2023		
US	REHEAT OPERATION FOR HEAT PUMP SYSTEM	18/397,286	12/27/2023		
US	ALTERNATIVE FEEDBACK USAGE FOR HVAC SYSTEM	18/409,649	1/10/2024		
US	NOISE ABATEMENT SYSTEMS AND METHODS FOR A FURNACE	18/431,705	2/2/2024		
US	BLOWER ASSEMBLY SYSTEMS AND METHODS	18/433,116	2/5/2024		
US	CONDENSER FAN ROTATION RESTRICTION SYSTEM	18/439,574	2/12/2024		
US	TUBE JOINT FOR HVAC SYSTEM	18/441,867	2/14/2024		
US	ENERGY EFFICIENT HEAT PUMP SYSTEMS AND METHODS	18/441,921	2/14/2024		
US	HEATING, VENTILATION, AND AIR CONDITIONING CONTROL SYSTEM	18/581,294	2/19/2024		
US	CONDENSATE PAN FOR A HEAT EXCHANGER	63/558,456	2/27/2024		
US	AN OUTDOOR AIR HOOD ASSEMBLY WITH AN INLET HOOD	18/601,786	3/11/2024		
US	REVERSIBLE VALVE FOR HVAC SYSTEM	18/608,635	3/18/2024		
US	MULTI-POSE MOUNTING BRACKET	18/625,652	4/3/2024		
US	INTERFACE FOR A PLENUM FAN	18/635,688	4/15/2024		
US	QUICK HEAT ALGORITHM FOR MODULATING HEATING EQUIPMENT	18/649,640	4/29/2024		
US	ENERGY EFFICIENT HEAT PUMP WITH VALVE SYSTEM AND COUNTERFLOW ARRANGEMENT	18/752,558	6/24/2024		
WO	HEAT PUMP CONTROL SYSTEMS AND METHODS	PCT/US2023/011758	1/27/2023		