

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT8210363

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
EMERSON ELECTRIC CO.	04/26/2023
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	COPELAND COMFORT CONTROL LP
<b>Street Address:</b>	8100 WEST FLORISSANT AVE.
<b>City:</b>	ST. LOUIS
<b>State/Country:</b>	MISSOURI
<b>Postal Code:</b>	63136
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	18377678
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(314)726-7501
<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>	13147267502
<b>Email:</b>	stlouisagfefile@harnessip.com
<b>Correspondent Name:</b>	ANTHONY G. FUSSNER
<b>Address Line 1:</b>	7700 BONHOMME, SUITE 400
<b>Address Line 4:</b>	ST. LOUIS, MISSOURI 63105
<b>ATTORNEY DOCKET NUMBER:</b>	7578W-000753-US-COA
<b>NAME OF SUBMITTER:</b>	ANTHONY G. FUSSNER
<b>SIGNATURE:</b>	/Anthony G. Fussner/
<b>DATE SIGNED:</b>	10/09/2023
<b>Total Attachments: 23</b>	
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**STEP 38(e) SUPPLEMENTAL IP ASSIGNMENT AGREEMENT**

This SUPPLEMENTAL INTELLECTUAL PROPERTY ASSIGNMENT AGREEMENT (this “**Agreement**”), effective as of April 26, 2023 (the “**Effective Date**”), is entered into by and between Emerson Electric Co., a Missouri corporation (“**Emerson**”), and Copeland Comfort Control LP, a Delaware limited partnership (“**Copeland Comfort Control**”). Capitalized terms not otherwise defined herein shall have the meanings set forth in the Transaction Agreement (as defined below), unless the context herein otherwise requires.

**WITNESSETH:**

WHEREAS, in connection with the transactions contemplated by that certain Transaction Agreement, dated as of October 30, 2022, by and among Emerson, Emerald JV Holdings L.P., a Delaware limited partnership, BCP Emerald Aggregator L.P., a Delaware limited partnership, and Emerald Debt Merger Sub L.L.C., a Delaware limited liability company (as it may be amended, supplemented or otherwise modified from time to time) (the “**Transaction Agreement**”), the parties hereto desire to enter into this Agreement to consummate certain transactions contemplated by the Step 38(e) Transfer Agreement (as defined below) on the terms set forth herein;

WHEREAS, the parties hereto entered into that certain Transfer Agreement, dated as of April 26, 2023 (the “**Step 38(e) Transfer Agreement**”), in connection with the transfer of certain Purchased Assets contemplated by Step 38(e) of the Master Step Plan;

WHEREAS, in connection with the transactions contemplated by the Step 38(e) Transfer Agreement, Copeland Comfort Control has agreed to accept and acquire from Emerson, and Emerson has agreed to contribute, convey, transfer, assign and deliver, or cause to be contributed, conveyed, transferred, assigned and delivered, to Copeland Comfort Control, all of Emerson’s right, title and interest in, to and under all Assigned IP Assets of Emerson White Rodgers, a division of Emerson, including the Trademarks set forth on Exhibit A and the Patents set forth on Exhibit B (collectively, the “**White Rodgers Assigned IP Assets**”); and

WHEREAS, in connection with the foregoing, Emerson desires to contribute, convey, transfer, assign and deliver to Copeland Comfort Control, and Copeland Comfort Control desires to accept and acquire from Emerson, all of Emerson’s right, title and interest in, to and under the White Rodgers Assigned IP Assets, including the Trademarks set forth on Exhibit A and the Patents set forth on Exhibit B.

NOW, THEREFORE, in consideration of the foregoing and the mutual covenants set forth herein and other good and valuable consideration, the receipt, adequacy and legal sufficiency of which are hereby acknowledged, the parties hereto agree as follows:

Section 1. *Transfers.* Effective as of the Effective Date, Emerson shall and hereby does, irrevocably contribute, convey, transfer, assign and deliver to Copeland Comfort Control, and Copeland Comfort Control shall, and hereby does, accept all of

Emerson's right, title and interest in, to and under (i) the White Rodgers Assigned IP Assets, including the Trademarks set forth on Exhibit A, together with all goodwill associated therewith and symbolized thereby and all common-law rights related thereto, and the Patents set forth on Exhibit B, and, in each case, all registrations therefor that are secured as of the Effective Date, in each case to be held and enjoyed by Copeland Comfort Control for its own use and enjoyment, and for the use and enjoyment of Copeland Comfort Control's successors, assigns or other legal representatives, as fully and entirely as the same would have been held and enjoyed by Emerson if this assignment had not been made, and (ii) all past, current or future rights, claims, credits, causes of action or rights of set-off against third parties, including unliquidated rights under manufacturers' and vendors' warranties (and the right to receive all monies, proceeds, settlements and recoveries in connection therewith) to the extent related to any White Rodgers Assigned IP Assets.

Section 2. *Recordation.* The parties hereby authorize and request the Commissioner of Patents and Trademarks at the United States Patent and Trademark Office, and the corresponding entities or agencies in any other applicable jurisdictions, to record Copeland Comfort Control as the assignee and owner of the White Rodgers Assigned IP Assets, including the Trademarks set forth on Exhibit A and the Patents set forth on Exhibit B, and to issue any and all registrations that are or may be secured as of or after the Effective Date, from the White Rodgers Assigned IP Assets to Copeland Comfort Control, as assignee of Emerson's entire right, title and interest in, to, and under the same.

Section 3. *Governing Law.* This Agreement shall be governed by and construed in accordance with the law of the State of Delaware, without regard to conflicts of law principles.

Section 4. *Amendment.* This Agreement may not be amended or modified in any manner except by a written agreement executed by each of the parties hereto.

Section 5. *Counterparts.* This Agreement may be executed in any number of counterparts, each of which shall be an original with the same effect as if the signatures thereto and hereto were upon the same instrument.

Section 6. *Severability.* If any term, provision, covenant or restriction of this Agreement is held by a court of competent jurisdiction or other Governmental Authority to be invalid, void or unenforceable, the remainder of the terms, provisions, covenants and restrictions of this Agreement shall remain in full force and effect and shall in no way be affected, impaired or invalidated so long as the economic or legal substance of the transactions contemplated hereby is not affected in any manner materially adverse to any party. Upon such a determination, the parties shall negotiate in good faith to modify this Agreement so as to effect the original intent of the parties as closely as possible in an acceptable manner in order that the transactions contemplated hereby be consummated as originally contemplated to the fullest extent possible.

Section 7. *Further Assurances.* Each of the parties hereto shall execute and deliver such additional agreements, documents and instruments, and shall take such

further actions, as may be reasonably required to give full effect to the purpose and intent of this Agreement.

Section 8. *Conflicts.* This Agreement shall be without prejudice to the Transaction Agreement. In the event of any conflict or inconsistency between the terms of this Agreement and the Transaction Agreement, the terms of the Transaction Agreement shall control. In the event of any conflict between the terms of this Agreement and the Step 35(a) Intellectual Property Assignment Agreement, dated as of May 25, 2023, by and between Emerson and Emersub CXIII, Inc., the terms of this Agreement shall control.

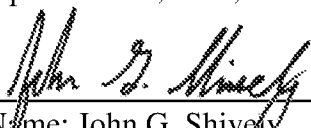
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IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be duly executed as of the date first written above.

**EMERSON ELECTRIC CO.**

By:   
Name: John A. Sperino  
Title: Vice President & Assistant Secretary

**COPELAND COMFORT CONTROL LP**

By: Copesub GP 3, LLC, its General Partner  
By:   
Name: John G. Shively  
Title: Vice President & Secretary

*[Signature Page to Step 38(e) Supplemental IP Assignment Agreement]*

## Exhibit A

### Assigned Trademarks

Trademark	Country	Application Number	Application Date	Trademark Status	Owner
±1° ACCURACY OPTIMUM COMFORT AND PERFORMANCE & Design	Canada	1356961	Jul 24 2007	Registered	Emerson Electric Co.
±1° ACCURACY OPTIMUM COMFORT AND PERFORMANCE & Design	United States of America	77/091863	Jan 26 2007	Registered	Emerson Electric Co.
70 SERIES	Canada	1286514	Jan 18 2006	Registered	Emerson Electric Co.
70 SERIES	United States of America	78/736056	Oct 19 2005	Registered	Emerson Electric Co.
80 SERIES	Canada	1286518	Jan 18 2006	Registered	Emerson Electric Co.
80 SERIES	United States of America	78/736083	Oct 19 2005	Registered	Emerson Electric Co.
90 SERIES	Canada	1286513	Jan 18 2006	Registered	Emerson Electric Co.
90 SERIES	United States of America	78/736093	Oct 19 2005	Registered	Emerson Electric Co.
ALCO & Design	Canada	0191338	Jun 17 1946	Registered	Emerson Electric Co.
ALCO & Design	Denmark	VA02691960	Jun 14 1960	Registered	Emerson Electric Co.
ALCO & Design	Germany	A9325	Feb 3 1960	Registered	Emerson Electric Co.
ALCO & Design	Mexico	501749	Jun 14 1946	Registered	Emerson Electric Co.
ALCO & Design	Norway	70053	Jun 1 1960	Registered	Emerson Electric Co.
ALCO & Design	Portugal	169593	Jul 1 1960	Registered	Emerson Electric Co.
ALCO CONTROLS & Design	Bolivia	960066	Jan 12 1996	Registered	Emerson Electric Co.
ALCO CONTROLS & Design	Bolivia	960067	Jan 12 1996	Registered	Emerson Electric Co.
ALCO CONTROLS & Design	China	3516449	Apr 7 2003	Registered	Emerson Electric Co.
ALCO CONTROLS & Design	Lebanon	15904	Jun 21 1996	Registered	Emerson Electric Co.
ALCO CONTROLS & Design	United States of America	72/369777	Sep 3 1970	Registered	Emerson Electric Co.
ALCO CONTROLS & Design	Venezuela	1464294	Nov 3 1994	Registered	Emerson Electric Co.
ALCO CONTROLS & Design	Vietnam	4199209240	Oct 2 1992	Registered	Emerson Electric Co.
ALCO CONTROLS	Russian Federation	2012710417	Apr 4 2012	Registered	Emerson Electric Co.
ALCO THERMO	Peru	47448	Aug 8 1997	Registered	Emerson Electric Co.
ALCO	Canada	0191339	Jun 17 1946	Registered	Emerson Electric Co.
ALCO	China	20174015	Jun 2 2016	Registered	Emerson Electric Co.
ALCO	China	3516450	Apr 7 2003	Registered	Emerson Electric Co.
ALCO	Egypt	237041	Oct 13 2009	Registered	Emerson Electric Co.
ALCO	EUTM	015047459	Jan 27 2016	Registered	Emerson Electric Co.
ALCO	India	3259527	May 13 2016	Registered	Emerson Electric Co.
ALCO	Israel	222881	Aug 20 2009	Registered	Emerson Electric Co.
ALCO	Israel	222882	Aug 20 2009	Registered	Emerson Electric Co.
ALCO	Japan	2016012197	Feb 4 2016	Registered	Emerson Electric Co.
ALCO	Japan	433859	Feb 17 1959	Registered	Emerson Electric Co.

Trademark	Country	Application Number	Application Date	Trademark Status	Owner
ALCO	Jordan	109849	Nov 17 2009	Registered	Emerson Electric Co.
ALCO	Kuwait	105892	Aug 17 2009	Registered	Emerson Electric Co.
ALCO	South Africa	200915811	Aug 18 2009	Registered	Emerson Electric Co.
ALCO	South Africa	200915812	Aug 18 2009	Registered	Emerson Electric Co.
ALCO	South Africa	200915813	Aug 18 2009	Registered	Emerson Electric Co.
ALCO	South Africa	200915814	Aug 18 2009	Registered	Emerson Electric Co.
ALCO	Taiwan	107045319	Jul 13 2018	Registered	Emerson Electric Co.
ALCO	Turkey	201618519	Mar 1 2016	Registered	Emerson Electric Co.
ALCO	United Kingdom	UK00915047459	Jan 27 2016	Registered	Emerson Electric Co.
CLIMATETALK	United States of America	78/611171	Apr 18 2005	Registered	Emerson Electric Co.
COMFORT PLUS	United States of America	78/235518	Apr 9 2003	Registered	Emerson Electric Co.
GEMINI	United States of America	78/042447	Jan 9 2001	Registered	Emerson Electric Co.
INTELLI-VENT	Canada	1228732	Aug 24 2004	Registered	Emerson Electric Co.
INTELLI-VENT	United States of America	78/383657	Mar 12 2004	Registered	Emerson Electric Co.
LEVEL TEMP	United States of America	71432626	Jun 3 1940	Registered	Emerson Electric Co.
LUMITY	Australia	2138886	Jul 10 2020	Registered	Emerson Electric Co.
LUMITY	Brazil	501562569	Jul 10 2020	Registered	Emerson Electric Co.
LUMITY	Canada	2066758	Jul 10 2020	Pending	Emerson Electric Co.
LUMITY	China	G1562569	Jul 10 2020	Pending	Emerson Electric Co.
LUMITY	EUTM	1562569	Jul 10 2020	Pending	Emerson Electric Co.
LUMITY	India	1562569	Jul 10 2020	Pending	Emerson Electric Co.
LUMITY	Japan	1562569	Jul 10 2020	Pending	Emerson Electric Co.
LUMITY	Malaysia	1562569	Jul 10 2020	Pending	Emerson Electric Co.
LUMITY	Mexico	1562569	Jul 10 2020	Pending	Emerson Electric Co.
LUMITY	Mexico	2463727	Jul 10 2020	Registered	Emerson Electric Co.
LUMITY	Mexico	2463728	Jul 10 2020	Registered	Emerson Electric Co.
LUMITY	Mexico	2463729	Jul 10 2020	Registered	Emerson Electric Co.
LUMITY	Republic of Korea (South)	1562569	Jul 10 2020	Pending	Emerson Electric Co.
LUMITY	Singapore	40202024994U	Jul 10 2020	Pending	Emerson Electric Co.
LUMITY	Taiwan	109049017	Jul 20 2020	Pending	Emerson Electric Co.
LUMITY	Thailand	1562569	Jul 10 2020	Pending	Emerson Electric Co.
LUMITY	Turkey	2020147888	Jul 10 2020	Registered	Emerson Electric Co.
LUMITY	United Kingdom	1562569	Jul 10 2020	Registered	Emerson Electric Co.
LUMITY	United Kingdom	UK00811562569	Jul 10 2020	Registered	Emerson Electric Co.
LUMITY	United States of America	88/769575	Jan 22 2020	Pending	Emerson Electric Co.
LUMITY	WIPO	1562569	Jul 10 2020	Registered	Emerson Electric Co.
MISCELLANEOUS DESIGN (F180 THERMOSTAT)	United States of America	78/674935	Jul 20 2005	Registered	Emerson Electric Co.
SENSI & Design	Canada	1686376	Jul 22 2014	Registered	Emerson Electric Co.
SENSI & Design	Canada	1831373	Apr 6 2017	Registered	Emerson Electric Co.
SENSI & Design	Canada	1831375	Apr 6 2017	Registered	Emerson Electric Co.
SENSI & Design	EUTM	018002042	Dec 19 2018	Pending	Emerson Electric Co.
SENSI & Design	United States of America	86/174374	Jan 24 2014	Registered	Emerson Electric Co.
SENSI & Design	United States of America	87/392737	Mar 30 2017	Registered	Emerson Electric Co.
SENSI & Design	United States of America	87/392768	Mar 30 2017	Registered	Emerson Electric Co.
SENSI HYDRO (In Chinese Characters)	China	70162241	Mar 14 2023	Pending	Emerson Electric Co.
SENSI HYDRO (In Chinese Characters)	China	70174384	Mar 14 2023	Pending	Emerson Electric Co.
SENSI HYDRO	China	31915564	Jun 29 2018	Registered	Emerson Electric Co.



Trademark	Country	Application Number	Application Date	Trademark Status	Owner
SENSI HYDRO	China	31915565	Jun 29 2018	Registered	Emerson Electric Co.
SENSI HYDRO	China	31915566	Jun 29 2018	Registered	Emerson Electric Co.
SENSI HYDRO	China	31915567	Jun 29 2018	Registered	Emerson Electric Co.
SENSI HYDRO	India	3967618	Oct 8 2018	Registered	Emerson Electric Co.
SENSI HYDRO	Indonesia	D002018047524	Sep 25 2018	Registered	Emerson Electric Co.
SENSI HYDRO	Republic of Korea (South)	4020180131436	Sep 19 2018	Registered	Emerson Electric Co.
SENSI LITE	Canada	2223530	Nov 21 2022	Pending	Emerson Electric Co.
SENSI LITE	United States of America	97/589436	Sep 13 2022	Pending	Emerson Electric Co.
SENSI PREDICT	Canada	1974624	Jul 9 2019	Pending	Emerson Electric Co.
SENSI PREDICT	United States of America	88/280502	Jan 29 2019	Registered	Emerson Electric Co.
SENSI	Canada	1634987	Jul 12 2013	Registered	Emerson Electric Co.
SENSI	Canada	1686375	Jul 22 2014	Registered	Emerson Electric Co.
SENSI	Canada	1831372	Apr 6 2017	Registered	Emerson Electric Co.
SENSI	Canada	1831374	Apr 6 2017	Registered	Emerson Electric Co.
SENSI	United States of America	86/174387	Jan 24 2014	Registered	Emerson Electric Co.
SENSI	United States of America	86/454318	Nov 14 2014	Registered	Emerson Electric Co.
SENSI	United States of America	87/392713	Mar 30 2017	Registered	Emerson Electric Co.
SENSI	United States of America	87/392727	Mar 30 2017	Registered	Emerson Electric Co.
Thermostat Design	United States of America	78/674865	Jul 20 2005	Registered	Emerson Electric Co.
WHITE RODGERS & Design	United States of America	78/627437	May 11 2005	Registered	Emerson Electric Co.
WHITE RODGERS	China	960115133	Oct 16 1996	Registered	Emerson Electric Co.
WHITE RODGERS	Italy	4915	Sep 9 1958	Registered	Emerson Electric Co.
WHITE-RODGERS & Design	China	6715807	May 12 2008	Registered	Emerson Electric Co.
WHITE-RODGERS & Design	China	6715808	May 12 2008	Registered	Emerson Electric Co.
WHITE-RODGERS & Design	China	6715809	May 12 2008	Registered	Emerson Electric Co.
WHITE-RODGERS	Argentina	2194280	Dec 22 1998	Registered	Emerson Electric Co.
WHITE-RODGERS	Australia	249908	Jul 8 1971	Registered	Emerson Electric Co.
WHITE-RODGERS	Bolivia	08515	Jun 26 1998	Registered	Emerson Electric Co.
WHITE-RODGERS	Brazil	758289	Jul 11 1966	Registered	Emerson Electric Co.
WHITE-RODGERS	Brazil	821364057	Jan 18 1999	Registered	Emerson Electric Co.
WHITE-RODGERS	Canada	256881	May 12 1960	Registered	Emerson Electric Co.
WHITE-RODGERS	China	970079058	Jul 31 1997	Registered	Emerson Electric Co.
WHITE-RODGERS	Colombia	98037041	Jul 1 1998	Registered	Emerson Electric Co.
WHITE-RODGERS	EUTM	000086215	Apr 1 1996	Registered	Emerson Electric Co.
WHITE-RODGERS	France	1238447	May 26 1973	Registered	Emerson Electric Co.
WHITE-RODGERS	Germany	W9931	Sep 22 1958	Registered	Emerson Electric Co.
WHITE-RODGERS	Mexico	26161	Jun 4 1987	Registered	Emerson Electric Co.
WHITE-RODGERS	Saudi Arabia	146787	Aug 19 2009	Registered	Emerson Electric Co.
WHITE-RODGERS	United Arab Emirates	132855	Aug 17 2009	Registered	Emerson Electric Co.
WHITE-RODGERS	United Kingdom	UK00900086215	Apr 1 1996	Registered	Emerson Electric Co.
WHITE-RODGERS	United States of America	72/058893	Sep 15 1958	Registered	Emerson Electric Co.
WHITE-RODGERS	Venezuela	2010020209	Dec 7 2010	Registered	Emerson Electric Co.
WR & Design	United States of America	72/022845	Jan 18 1957	Registered	Emerson Electric Co.

## Assigned Domain Names

1. 80series.com
2. 80seriesthermostat.com
3. 80seriesthermostats.com
4. blueeasyreader.com
5. blueezreader.com
6. blueselecto.com
7. cleanairforlife.com
8. comfortguardplus.com
9. comfortguardpro.com
10. comfortmonitoring.com
11. corecomplete.net
12. corecomplete.org
13. defrostcontrolboard.com
14. digital-thermostat.com
15. digital-thermostat.net
16. energysavingthermostat.info
17. energysavingthermostat.net
18. energysavingthermostat.org
19. energysavingthermostats.com
20. energysavingthermostats.info
21. energysavingthermostats.net
22. energysavingthermostats.org
23. free80series.com
24. increase-efficiency.com
25. insidewr.com
26. insidewr.net
27. mycomfortguard.com
28. natureshomepl.com
29. oemstrustwr.com
30. onedegreeproducts.com
31. onedegreethermostats.com
32. privatelabelthermostat.com
33. privatelabelthermostats.com
34. procontractorbranding.com
35. propartnerprogram.com
36. propartnerregistration.com
37. rightfitkit.com
38. senpro.org
39. sensicomfort.com
40. sensicomfort.info
41. sensicomfort.net
42. sensicomfort.org
43. sensicomfortmonitoring.com
44. sensifleet.com

45. sensilightcommercial.com
46. sensimanagerpromo.com
47. sensi-multiple-thermostat-manager.com
48. sensi-multi-thermostat-manager.com
49. sensipartnerprogram.com
50. sensipredict.com
51. sensi-pro.com
52. sensirebateprogram.com
53. sensirebatepromo.com
54. sensiregistration.com
55. sensisavings.com
56. sensithermostat.com
57. sensithermostat.info
58. sensithermostat.net
59. sensithermostat.org
60. sensi-thermostat-manager.com
61. sensitouch.biz
62. sensitouch.ca
63. sensitouch.com
64. sensitouch.info
65. sensitouch.me
66. sensitouch.mobi
67. sensitouch.net
68. sensitouch.org
69. sensitouch.us
70. sensitouchrebate.com
71. sureswitchrelay.com
72. thermostathelper.com
73. thermostatmanager.com
74. thermostatolutions.com
75. unconventional.solutions
76. utility-rebate.com
77. verdant.co
78. verdant.info
79. verdant.online
80. whiterodgers.asia
81. white-rodgers.asia
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91. white-rodgers.us
92. whiterodgerscontrols.com
93. white-rodgers-onlinetraining.com
94. white-rodgers-personalized-literature.com
95. whiterodgersthermostat.com
96. white-rodgersthermostat.com
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104. white-rodgerswholesaler.com
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106. white-rogers.com
107. wificonnectedthermostat.com
108. wificonnectedthermostats.com
109. wifienabledthermostats.com
110. wifiprogrammablethermostats.com
111. wr.eu
112. wrcrossref.com
113. wrhotrod.com
114. wrmobile.app
115. wrparts.com
116. wrsas.com
117. wrtalk.com

## Exhibit B

### Assigned Patents

Title	Country	Filed Date	Application Number	Patent Number	Owner
120V/240V Self-Configuring Ignition Control/Module	United States of America	Not yet filed.	N/A	N/A	Emerson Electric Co.
AC Line Powered Relay Driving Circuits	United States of America	2014-01-03	14/146878	9330870	Emerson Electric Co.
Adaptive Control For Motor Fan With Multiple Speed Taps	United States of America	2016-12-09	15/374,525	10,309,405	Emerson Electric Co.
Adaptive Control For Motor Fan With Multiple Speed Taps	United States of America	2019-06-03	16/430,281	11,118,590	Emerson Electric Co.
Air Cleaner Panel	United States of America	2011-03-16	29/387683	D645132	Emerson Electric Co.
Analog Signal Processing Using a Correlator Digital Filter	United States of America	2014-09-15	14/486597	9927783	Emerson Electric Co.
Apparatus and Method for Control of a Thermostat	United States of America	2008-11-11	12/268898	8190296	Emerson Electric Co.
Apparatus And Method For Controlling A Variable Fuel Fired Appliance	United States of America	2004-10-12	10/963381	7048537	Emerson Electric Co.
Apparatus And Method For Detecting Condition Of Heating Element	United States of America	2010-01-22	12/692320	8258442	Emerson Electric Co.
Apparatus and Method for Determining Load of Energy Consuming Appliances Within a Premises	United States of America	2011-01-12	13/005306	8761944	Emerson Electric Co.
Apparatus And Method For Shutting Down Fuel Fired Appliance	United States of America	2005-06-21	11/157477	7083408	Emerson Electric Co.
Apparatus And Methods For Arresting Flame At A Gas Burner	United States of America	2016-03-14	15/068730	10,578,302	Emerson Electric Co.
Apparatus And Methods For Controlling A Water Heater	United States of America	2004-06-08	10/863319	7032542	Emerson Electric Co.
Apparatus and Methods for Drying Material	United States of America	2012-10-31	13/664522	8898927	Emerson Electric Co.
APPARATUS AND METHODS FOR POWER STEALING BY CONTROLLERS	Canada	2014-11-17	2871207	2871207	Emerson Electric Co.
Apparatus and Methods for Power Stealing by Controllers	United States of America	2014-10-10	14/536922	9841203	Emerson Electric Co.
Apparatus And Methods For Power Stealing By Controllers	United States of America	2014-11-10	14/536922	9,841,203	Emerson Electric Co.
Apparatus And Methods For Variable Furnace Control	United States of America	2002-08-30	10/232609	7,101,172	Emerson Electric Co.
Apparatus And Methods For Variable Furnace Control	United States of America	2006-06-14	11/453,305	7,735,743	Emerson Electric Co.
APPARATUS FOR CONNECTING ELECTRIC TERMINAL TO CONNECTO BLOCKS	United States of America	2002-07-09	10/191586	6981313	Emerson Electric Co.
Apparatus for Indicating Level of Pilot Flame Output	United States of America	2011-08-11	13/207593	9080769	Emerson Electric Co.
Automatic Pilot Lighting Systems	United States of America	2019-09-16	16/571,441	11,098,898	Emerson Electric Co.
Bad Ground and Reverse Polarity Detection for HVAC Controls	United States of America	2014-01-31	14/169360	9372219	Emerson Electric Co.

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Bad Ground and Reverse Polarity Detection for HVAC Controls	United States of America	2016-06-20	15/186703	9851391	Emerson Electric Co.
Battery Power Management in a Thermostat With a Wireless Transceiver	United States of America	2013-04-19	13/866118	9,122,283	Emerson Electric Co.
Battery Power Management in a Thermostat with a Wireless Transceiver	United States of America	2015-08-26	14/835765	9,618,225	Emerson Electric Co.
BRACKET FOR MOUNTING IGNITER ON GAS WATER HEATER	United States of America	2002-10-31	10/065575	6666421	Emerson Electric Co.
Bracket For Water Heater	United States of America	2002-10-15	10/271366	6732677	Emerson Electric Co.
Capacitive Touchscreens for Thermostats using Smaller Capacitors in Standby Mode	United States of America	2012-11-07	13/670721	9207817	Emerson Electric Co.
Circulator Failure Detection in HVAC Systems	United States of America	2018-09-11	16/128,043	11,268,719	Emerson Electric Co.
Climate Control System Including Responsive Controllers	United States of America	2007-10-31	11/931749	8689572	Emerson Electric Co.
Climate Control Systems, and Methods Relating Thereto	United States of America	2013-11-04	14/071,542	9,631,833	Emerson Electric Co.
Coaxial Gas Valve Assemblies Including Electronically Controlled Solenoids	United States of America	2019-09-23	16/579512	N/A	Emerson Electric Co.
Compensating for Sensor Thermal Lag	United States of America	2012-06-12	13/494524	9303897	Emerson Electric Co.
Connecting Electrical Equipment Through Wiring Harnesses	United States of America	2015-06-23	14/747686	10249414	Emerson Electric Co.
Connecting Electrical Equipment Through Wiring Harnesses	United States of America	2016-06-22	15/189661	9960563	Emerson Electric Co.
Connecting Split HVAC Systems To The Internet And/Or Smart Utility Meters	United States of America	2012-07-13	13/548552	10013873	Emerson Electric Co.
Control And Method For Operating An Electric Water Heater	United States of America	2005-12-08	11/297753	7221862	Emerson Electric Co.
Control Circuits For Motors And Related Methods	United States of America	2013-11-22	14/087597	9178447	Emerson Electric Co.
Control Circuits For Supplying Current To Actuate Gas Valves In HVAC Systems	United States of America	2019-09-16	16/571431	10,605,478	Emerson Electric Co.
Control For A Heating And/Or Cooling Unit	United States of America	2005-08-16	11/204,410	7,513,438	Emerson Electric Co.
Control for Monitoring Flame Integrity in A Heating Appliance	United States of America	2010-09-16	12/873560	9,366,433	Emerson Electric Co.
Control Housing	United States of America	2011-02-04	29/384883	D658598	Emerson Electric Co.
Control Housing	United States of America	2012-03-13	29/415695	D677635	Emerson Electric Co.
Control Of An Expansion Valve Regulating Refrigerant To An Evaporator Of A Climate Control System	United States of America	2012-06-25	13/532211	9250001	Emerson Electric Co.
Control of Stepper Motor Operated Gas Valve	European Patent	2012-02-20	121561211	2489935	Emerson Electric Co.

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CONTROL OF STEPPER MOTOR OPERATED GAS VALVE	United States of America	2011-02-21	13/031517	9,581,331	Emerson Electric Co.
Control System for an Expansion Valve Regulating Refrigerant to an Evaporator of a Climate Control System	United States of America	2009-06-17	12/486550	8,205,465	Emerson Electric Co.
CONTROL SYSTEM FOR AN HVAC SYSTEM INCLUDING MODULAR COMMUNICATION	United States of America	2020-09-09	16/948,211	N/A	Emerson Electric Co.
Controller And Method Of Control For A Water Heater	India	2013-08-02	2553MUM2013	N/A	Emerson Electric Co.
Controller for a Climate Control System	United States of America	2011-03-28	13/073628	8,494,681	Emerson Electric Co.
Controller for a Climate Control System	United States of America	2013-07-23	13/948863	8,774,947	Emerson Electric Co.
Controller For A Fuel Fired Water Heating Application	United States of America	2005-08-04	11/197,390	7,469,840	Emerson Electric Co.
Controller For Fuel Fired Heating Appliance	United States of America	2004-10-12	10/963362	7020543	Emerson Electric Co.
Controller For Fuel Fired Heating Appliance	United States of America	2006-01-04	11/325652	7191039	Emerson Electric Co.
Controller For Two-Stage Heat Source Usable With Single And Two Stage Thermostats	United States of America	2005-11-02	11/265695	7731096	Emerson Electric Co.
Controller Set Point Adjustment Based On Outdoor Temperature	United States of America	2015-04-03	14/678169	9,964,322	Emerson Electric Co.
Controllers and Methods for Accepting Multiple Different Types of Input Signals	United States of America	2012-05-09	13/467,791	9,013,343	Emerson Electric Co.
Controllers and Methods of Control of Water Heaters	United States of America	2014-03-04	14/196049	9651955	Emerson Electric Co.
Controlling a Climate Control Appliance in Response To a Reduced Operation Request	United States of America	2012-05-14	13/471180	9423144	Emerson Electric Co.
Controlling Transmission Intervals In An HVAC System Based On Operational Modes Of The HVAC System	United States of America	2018-06-11	16/005258	10,612,809	Emerson Electric Co.
Controls And Related Methods For Mitigating Liquid Migration And/Or Floodback	United States of America	2020-04-27	16/859,725	N/A	Emerson Electric Co.
DC Voltage-Limiting Circuits And Electronic Devices And Thermostats Including DC Voltage-Limiting Circuits	United States of America	2014-05-07	14/271689	9,223,324	Emerson Electric Co.
Determining Power Stealing Capability Of A Climate Control System Controller	United States of America	2013-10-30	14/066765	9,404,667	Emerson Electric Co.
Devices For Measuring Voltage Of A Power Supply, Detection Devices, And Temperature Controllers	United States of America	2014-01-13	14/153334	9261540	Emerson Electric Co.
Driving Controls And Diagnostic Methods For Communicating Motors	United States of America	2013-11-08	14/075,372	9,494,333	Emerson Electric Co.
Driving Controls And Diagnostic Methods For Communicating Motors	United States of America	2016-10-27	15/335,768	9,939,169	Emerson Electric Co.
Dual Voltage Level Circuit for Driving a Latching Relay	United States of America	2015-04-22	14/693067	9754746	Emerson Electric Co.

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Dual-Mode Power Stealing For A Climate Control System Controller	United States of America	2014-03-24	14/222847	9,739,499	Emerson Electric Co.
ENERGY MANAGEMENT AND SMART THERMOSTAT LEARNING METHODS AND CONTROL SYSTEMS	United States of America	2021-08-30	63/260,719	N/A	Emerson Electric Co.
ENERGY MANAGEMENT AND SMART THERMOSTAT LEARNING METHODS AND CONTROL SYSTEMS	United States of America	Not yet filed.	N/A	N/A	Emerson Electric Co.
Energy Management Based On Location	United States of America	2014-03-07	14/201458	9618227	Emerson Electric Co.
External Tank Level Monitor	United States of America	2021-11-18	17/455,603	N/A	Emerson Electric Co.
Facilitating Installation of a Controller and/or Maintenance of a Climate Control System	United States of America	2014-05-16	14/280,103	9,683,753	Emerson Electric Co.
Facilitating Scheduling Of Comfort Controllers	United States of America	2015-01-20	14/600389	10,024,565	Emerson Electric Co.
Facilitating Scheduling Of Comfort Controllers	United States of America	2018-07-16	16/035,841	10,557,637	Emerson Electric Co.
FFT Flame Monitoring for Limit Condition	United States of America	2018-07-16	16/036,327	10,801,722	Emerson Electric Co.
Field Adjustable Gas Valve And Method Of Control	United States of America	2011-05-03	13/099772	9032991	Emerson Electric Co.
Field Adjustable Valve	China	2012-05-03	201210135578.9	ZL201210135578.9	Emerson Electric Co.
Flame Sensor Assemblies and Methods of Replacing Flame Sensor Assemblies	United States of America	2019-11-11	16/680,071	11,168,885	Emerson Electric Co.
Flame Sensor Assemblies and Methods of Replacing Flame Sensor Assemblies	United States of America	2021-10-30	17/515,411	N/A	Emerson Electric Co.
Flammable Vapor Sensing Control For A Water Heater	United States of America	2006-02-21	11/358,928	7,516,720	Emerson Electric Co.
Gas Flow Controller Including Over-Pressure Protection Features	United States of America	2015-10-10	14/880200	10012384	Emerson Electric Co.
GAS FLOW CONTROLLER INCLUDING VALVE DECOUPLING MECHANISM.	United States of America	2015-05-29	14/725528	9945583	Emerson Electric Co.
GAS POWERED WATER HEATER CONTROLLER AND RELATED METHODS	United States of America	2017-11-03	15/803,090	10,598,407	Emerson Electric Co.
Gas Valve and Method of Control	United States of America	2011-07-12	13/181205	8746275	Emerson Electric Co.
Gas Valve And Method Of Control	United States of America	2014-06-09	14/299629	9038658	Emerson Electric Co.
GAS VALVE CONTROL SYSTEM FOR A WATER HEATER	United States of America	2017-12-14	15/842405	10,655,891	Emerson Electric Co.
Gas Valve Control System For A Water Heater	United States of America	2020-02-20	16/796,431	11,371,751	Emerson Electric Co.
Gas Valve Control System For a Water Heater	United States of America	2020-02-20	16/796,446	11,371,752	Emerson Electric Co.
Gas Valve Unit With Bypass Flow	United States of America	2011-05-03	13/099779	8539978	Emerson Electric Co.



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HEAT PUMP CONTROLLER WITH USER-SELECTABLE DEFROST MODES AND REVERSING VALVE ENERGIZING MODES	United States of America	2014-01-15	14/155575	9964345	Emerson Electric Co.
High Capacity Co-Axial Gas Valve	United States of America	2003-12-29	10/747543	7011110	Emerson Electric Co.
Housing for a HVAC Contactor	United States of America	2012-02-02	29/412350	D696208	Emerson Electric Co.
HVAC Communication Bus Decoders And Corresponding Methods	United States of America	2013-12-19	14/134768	9377210	Emerson Electric Co.
HVAC Contactor	United States of America	2012-02-02	29/412351	D699688	Emerson Electric Co.
HVAC Control Assemblies, and Corresponding Methods of Determining Equipment Wiring Harness Connections	United States of America	2017-05-16	15/596245	10,571,150	Emerson Electric Co.
HVAC Controls And Controllers Including Alphanumeric Displays	United States of America	2016-08-08	15/230,723	9,830,887	Emerson Electric Co.
HVAC Controls Or Controllers Including Alphanumeric Displays	United States of America	2014-01-15	14/156338	9412328	Emerson Electric Co.
HVAC Controls or Controllers Including Alphanumeric Displays and Push Buttons	United States of America	2012-06-28	13/535396	9037303	Emerson Electric Co.
HVAC Systems, Controls, and Methods Including Switch Mode Power Supplies to Achieve Low Standby Power	United States of America	2013-03-11	13/792319	10156858	Emerson Electric Co.
HVAC Twinning Control	United States of America	2005-09-27	11/236768	7377120	Emerson Electric Co.
Ignition Control With Integral Carbon Monoxide Sensor	United States of America	2009-06-16	12/485650	7854607	Emerson Electric Co.
Illuminating Substrate-Mountable Devices	United States of America	2017-06-06	15/614,847	10,066,848	Emerson Electric Co.
Interactive Control System For An HVAC System	United States of America	2005-02-23	11/063806	7296426	Emerson Electric Co.
Interactive Control System For An HVAC System	United States of America	2006-09-22	11/526,268	8,550,368	Emerson Electric Co.
Interactive Control System For An HVAC System	United States of America	2007-10-30	11/928270	7784291	Emerson Electric Co.
Interactive Control System For An HVAC System	United States of America	2007-11-16	11/941673	7748225	Emerson Electric Co.
Interactive Control System For An HVAC System	United States of America	2007-11-16	11/941669	8413454	Emerson Electric Co.
Interior Magnet Machine With Non-Perpendicular Slots	China	2007-04-16	200710096368.2	ZL200710096368.2	Emerson Electric Co.
Line Communication With Twinned HVAC Units	United States of America	2013-07-15	13/941667	9292021	Emerson Electric Co.
Load Management Thermostat	United States of America	2007-05-11	11/801855	7775454	Emerson Electric Co.
Load Management Thermostat	United States of America	2010-08-17	12/857680	8177139	Emerson Electric Co.
Load Reduction Based On Percentage Change In Energy Cost	United States of America	2012-10-08	13/647216	8738186	Emerson Electric Co.

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Load Reduction Based On Percentage Change in Energy Price	United States of America	2014-04-28	14/263486	9230291	Emerson Electric Co.
Low Voltage Power Line Communication For Climate Control System	United States of America	2008-10-13	12/250,209	7,979,164	Emerson Electric Co.
Managing Battery Charge To Prolong Battery Life	China	2014-07-02	201420364155.9	ZL201420364155.9	Emerson Electric Co.
Managing Charge of a Battery in a Climate Control Device to Prolong Battery Life	United States of America	2015-01-12	14/594,323	10,536,017	Emerson Electric Co.
MANAGING TEMPERATURE OVERSHOOT	United States of America	2021-04-14	17/229,544	N/A	Emerson Electric Co.
Method And Apparatus For Operating An Electric Water Heater	United States of America	2006-01-09	11/328520	7257320	Emerson Electric Co.
METHOD AND SYSTEM FOR CONTROLLING POWERED ANODE DRIVE LEVEL.	United States of America	2017-12-29	15/858,268	10,738,385	Emerson Electric Co.
METHOD AND SYSTEM FOR MONITORING POWERED ANODE DRIVE LEVEL	United States of America	2019-01-03	16/239,113	11,047,595	Emerson Electric Co.
METHOD OF ASSEMBLING PILOT BURNER ASSEMBLY	United States of America	2018-01-12	15/870078	10488044	Emerson Electric Co.
METHOD OF MANUFACTURING AN ELECTROMAGNETIC ACTUATOR FOR A GAS POWERED WATER HEATER CONTROLLER	United States of America	2019-08-01	16/529,057	11,313,587	Emerson Electric Co.
Method to Detect Ignitor Open Error and Inducer and Ignitor Relay Faults	United States of America	2021-06-23	17/356,061	N/A	Emerson Electric Co.
MODULATING GAS VALVE WITH NATURAL/LP GAS CONVERSION CAPABILITY	United States of America	2003-05-16	10/249906	6705342	Emerson Electric Co.
Monitoring For And/Or Detecting Low Load Freeze-Up And/Or Paddle Wear Conditions Within Product Dispensers and Mixers	United States of America	2020-09-22	17/028,279	N/A	Emerson Electric Co.
Multi-Stage Variable Output Valve Unit	United States of America	2011-05-03	13/099763	8714460	Emerson Electric Co.
MULTI-THERMOSTAT MANAGEMENT AND CONTROL SYSTEM	United States of America	2016-08-02	15/226536	10,718,541	Emerson Electric Co.
Multi-Voltage Contractors, Controls And Related Methods	United States of America	2019-11-21	16/691,095	N/A	Emerson Electric Co.
Obtaining Elevated Output Voltages from Change Pump Circuits	United States of America	2012-05-17	13/473673	8476964	Emerson Electric Co.
OIL DIFFERENTIAL CHECK VALVE FOR USE IN REFRIGERATION OIL RESERVOIRS	United States of America	2017-03-30	29/599015	D872232	Emerson Electric Co.
OIL DIFFERENTIAL CHECK VALVE FOR USE IN REFRIGERATION OIL RESERVOIRS	United States of America	2019-05-21	29/691933	D871544	Emerson Electric Co.
OIL DIFFERENTIAL CHECK VALVE FOR USE IN REFRIGERATION OIL RESERVOIRS	United States of America	2019-05-21	29/691935	D872233	Emerson Electric Co.

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Optimizing Communication Modes In Wireless-Enabled Climate Control System Controllers	United States of America	2013-08-29	14/014,193	9,689,584	Emerson Electric Co.
Performing Integrity Checks On Climate Control System Components	United States of America	2012-11-28	13/687346	9,518,763	Emerson Electric Co.
Performing Integrity Checks On Climate Control System Components	United States of America	2016-12-12	15/375837	10,508,831	Emerson Electric Co.
POWER GENERATION SYSTEM FOR GAS-FIRED APPLIANCES	United States of America	2018-01-12	15/870029	10,684,013	Emerson Electric Co.
Power Stealing for a Wireless-Enabled Thermostat	United States of America	2013-05-03	13/886797	9405303	Emerson Electric Co.
Power Stealing for a Wireless-Enabled Thermostat	United States of America	2016-07-26	15/219634	10025328	Emerson Electric Co.
Programmable Thermostat	United States of America	2010-08-18	12/858,594	8,770,490	Emerson Electric Co.
Programmable Thermostat	United States of America	2014-07-07	14/325,291	10,152,067	Emerson Electric Co.
Providing a Motor Interface Compatible with Multiple Motor Types	United States of America	2016-09-26	15/275,777	10,044,301	Emerson Electric Co.
Providing Heat for Use Inside a Structure	United States of America	2014-11-24	14/551199	9687022	Emerson Electric Co.
Providing Wireless Network Authentication Data to Climate Control System Devices	United States of America	2014-12-03	14/559206	9,936,383	Emerson Electric Co.
Providing Wireless Network Authentication Data to Climate Control System Devices	United States of America	2018-03-15	15/921716	10,129,750	Emerson Electric Co.
Provisioning a Wireless-Capable Device for a Wireless Network	United States of America	2013-05-06	13/887,439	9,014,686	Emerson Electric Co.
Provisioning a Wireless-Capable Device for a Wireless Network	United States of America	2015-04-20	14/690876	9088306	Emerson Electric Co.
Provisioning a Wireless-Capable Device for a Wireless Network	United States of America	2015-07-20	14/803348	9531440	Emerson Electric Co.
Redundant Contactors with Data Based Preventive Maintenance Replacement Indicators	United States of America	2022-01-03	63/296,146	N/A	Emerson Electric Co.
Refrigerant Charge Level Detection	United States of America	2011-05-05	13/101516	8466798	Emerson Electric Co.
Refrigerant Charge Level Detection	United States of America	2013-06-14	13/917781	8648729	Emerson Electric Co.
Relay Controller	United States of America	2006-03-02	11/366157	7298148	Emerson Electric Co.
Relay Controller	United States of America	2007-10-19	11/875341	7672095	Emerson Electric Co.
Relay Switch Control And Related Methods	United States of America	2013-02-13	13/766551	10209751	Emerson Electric Co.
Remote Sensor Ornamental Design	United States of America	2022-03-22	29/831,696	N/A	Emerson Electric Co.
Remotely Testing Whether a Climate Control System Controller is Correctly Installed	United States of America	2016-08-12	15/236211	10,401,830	Emerson Electric Co.
Remotely Testing Whether A Climate Control System Controller Is Correctly Installed	United States of America	2019-08-30	16/556,480	11,366,461	Emerson Electric Co.

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Retrieving Diagnostic Information From An HVAC Component	United States of America	2004-11-19	10/993646	7174239	Emerson Electric Co.
Reversible Flow Valve Assembly	United States of America	2009-05-27	12/472931	8074678	Emerson Electric Co.
Reversible Flow Valve Assembly	United States of America	2011-12-12	13/323390	8,230,878	Emerson Electric Co.
SAFETY GAS VALVE RELAY DRIVING CIRCUITS	United States of America	2018-12-12	16/218232	10,480,811	Emerson Electric Co.
Selectively Connecting A Climate Control System Controller With More Than One Destination Server	United States of America	2014-01-20	14/159,330	9,568,205	Emerson Electric Co.
Selectively Connecting A Climate Control System Controller With More Than One Destination Server	United States of America	2017-02-13	15/431040	10,209,692	Emerson Electric Co.
Self-Learning Relay Turn-Off Control System and Method	United States of America	2015-08-26	14/835917	9754744	Emerson Electric Co.
Sensi Graphical User Interface (Icon and Blue Background Screen)	Canada	2014-05-16	156664	156664	Emerson Electric Co.
Slow Opening and Fast Closing Gas Valves and Related Methods	United States of America	2015-05-11	14/708,994	10,006,664	Emerson Electric Co.
Smart Energy Controlled Water Heater	United States of America	2012-01-24	13/356779	9151516	Emerson Electric Co.
Smart Energy Controlled Water Heater	United States of America	2013-03-13	13/800411	9188363	Emerson Electric Co.
Smart Energy Controlled Water Heater	United States of America	2015-10-27	14/923791	9605872	Emerson Electric Co.
Solenoid Coil Including Bobbin with Moisture Barrier	United States of America	2016-04-01	15/088939	10591081	Emerson Electric Co.
Solenoid Valve	United States of America	2007-10-31	11/933247	7828265	Emerson Electric Co.
Solenoid Valve	United States of America	2006-08-30	11/512,741	7,422,193	Emerson Electric Co.
Solenoid Valve For Fluid Flow	United States of America	2004-07-30	10/903919	7163188	Emerson Electric Co.
Solenoid Valve For Fluid Flow	United States of America	2007-01-16	11/653777	7367543	Emerson Electric Co.
Solution of Connecting Single Split System or High Wall Air Conditioner to Internet or Smart Utility Meters	European Patent	2013-06-11	13171504.7	2674822	Emerson Electric Co.
SPARK IGNITION MODULE AND METHODS	United States of America	2020-04-20	16/853,095	N/A	Emerson Electric Co.
Speed Control Of Variable-Speed Multi-Phase Motors	United States of America	2012-07-13	13/548560	9214890	Emerson Electric Co.
Speed Control Of Variable-Speed Multiple-Phase Motors	United States of America	2015-12-14	14/967996	10084406	Emerson Electric Co.
Staging Climate Control System Controller Functions Based on Available Power	United States of America	2015-02-27	14/634283	9,587,847	Emerson Electric Co.
Stepper Motor Control Valves For Refrigerant Expansion And/Or System Controls	United States of America	2021-04-01	17/220,237	N/A	Emerson Electric Co.
Stepper Motor Control Valves For Refrigerant Expansion and/or System Controls	United States of America	2021-04-01	17/220,185	N/A	Emerson Electric Co.
Stepper Motor Gas Valve And Method of Control	United States of America	2013-02-25	13/775512	8752577	Emerson Electric Co.

Title	Country	Filed Date	Application Number	Patent Number	Owner
Stepper Motor Gas Valve And Method Of Control	United States of America	2010-03-23	12/729716	8275484	Emerson Electric Co.
Stepper Motor Valve and Method of Control	United States of America	2008-07-14	12/172444	8381760	Emerson Electric Co.
System And Method For Controlling A Multi-Zone Heating Or Cooling System	United States of America	2005-02-23	11/063819	7448435	Emerson Electric Co.
SYSTEM AND METHOD FOR DEMAND MITIGATION OF COMMONLY SCHEDULED THERMOSTATS	United States of America	2018-10-10	16/156,667	10,712,039	Emerson Electric Co.
System and Method for Internet Based Service Notification	United States of America	2011-05-12	13/106060	9329903	Emerson Electric Co.
SYSTEM AND METHOD FOR OFFSETS WITHIN SCHEDULE GROUPS FOR MULTIPLE THERMOSTATS	United States of America	2018-08-29	16/116610	10,901,440	Emerson Electric Co.
SYSTEM AND METHOD FOR THERMOSTAT DETECTION OF CONDENSATE SWITCH TRIPPING	United States of America	2018-08-06	16/055,802	10,591,177	Emerson Electric Co.
System And Methods For Controlling A Water Heater	United States of America	2005-02-07	11/052307	7290502	Emerson Electric Co. and AOS Holding Company
System For Fluid Pump Down Using Valves	United States of America	2020-02-13	16/790,228	11,306,954	Emerson Electric Co.
System For Remote Control Of A Condition At A Site	United States of America	2011-06-01	13/150840	8718826	Emerson Electric Co.
System For Remote Control Of A Condition At A Site	United States of America	2014-05-06	14/270424	9292022	Emerson Electric Co.
SYSTEMS AND METHODS FOR CHECKING STATUS OF A PRESSURE TRANSDUCER	United States of America	2020-07-29	16/947,341	N/A	Emerson Electric Co.
SYSTEMS AND METHODS FOR CHECKING STATUS OF A PRESSURE TRANSDUCER	United States of America	2020-07-29	16/947,342	N/A	Emerson Electric Co.
SYSTEMS AND METHODS FOR COMMUNICATION WITH MOTORS IN CLIMATE CONTROL SYSTEMS	United States of America	2020-09-03	16/948,112	N/A	Emerson Electric Co.
SYSTEMS AND METHODS FOR CONFIGURING CLIMATE CONTROL SYSTEM SPEED CONTROLS	United States of America	2020-09-03	16/948,113	11,209,183	Emerson Electric Co.
Systems and Methods For Controlling A Variable Gas Valve	United States of America	2022-02-28	17/652,833	N/A	Emerson Electric Co.
Systems And Methods For Controlling A Water Heater	United States of America	2008-12-12	12/333625	8176881	Emerson Electric Co.
Systems And Methods For Controlling A Water Heater	United States of America	2010-01-19	12/689687	8544423	Emerson Electric Co.
Systems And Methods For Controlling A Water Heater	United States of America	2012-05-11	13/469723	9103550	Emerson Electric Co.
SYSTEMS AND METHODS FOR CONTROLLING APPLIANCES	United States of America	2016-06-03	15/173194	10156863	Emerson Electric Co.
SYSTEMS AND METHODS FOR CONTROLLING GAS POWERED APPLIANCES	United States of America	2016-04-26	15/138745	10352588	Emerson Electric Co.

Title	Country	Filed Date	Application Number	Patent Number	Owner
Systems And Methods For Controlling Inducer Motor Speed	India	2020-09-26	202021041848	N/A	Emerson Electric Co.
Systems And Methods For Controlling Inducer Motor Speed	United States of America	2021-09-22	17/481,859	N/A	Emerson Electric Co.
Systems and Methods for Controlling Multistage Electronic Controlled Gas Valves	United States of America	2014-02-20	14/184748	9212821	Emerson Electric Co.
SYSTEMS AND METHODS FOR CONTROLLING WATER HEATERS	United States of America	2014-02-03	14/171,416	9,829,897	Emerson Electric Co.
SYSTEMS AND METHODS FOR FLAME MONITORING IN GAS POWERED APPLIANCES	United States of America	2020-01-23	16/750,468	N/A	Emerson Electric Co.
SYSTEMS AND METHODS FOR FUNCTIONALLY CUSTOMIZABLE USER INTERFACES	United States of America	2016-03-23	15/078,771	10,878,391	Emerson Electric Co.
Systems And Methods For Limiting DC Voltage	United States of America	2015-03-18	14/661116	9,870,008	Emerson Electric Co.
Systems and Methods for Power Stealing	United States of America	2012-03-01	13/409985	10191501	Emerson Electric Co.
Systems and methods for selecting temperature setpoints.	United States of America	2013-12-16	14/107926	9488993	Emerson Electric Co.
SYSTEMS AND METHODS FOR WIRELESSLY CONFIGURING CLIMATE CONTROL SYSTEM CONTROLS	United States of America	2021-03-12	17/199,902	N/A	Emerson Electric Co.
SYSTEMS AND METHODS FOR WIRELESSLY CONFIGURING CLIMATE CONTROL SYSTEM CONTROLS	United States of America	2022-06-10	17/806,405	N/A	Emerson Electric Co.
Temperature Measuring Devices and Related Methods	United States of America	2012-02-17	13/399171	9116052	Emerson Electric Co.
Thermostat	United States of America	2010-08-05	29/367286	D646990	Emerson Electric Co.
Thermostat	United States of America	2011-10-17	29/404204	D659560	Emerson Electric Co.
Thermostat	United States of America	2012-03-30	29/417233	D672666	Emerson Electric Co.
Thermostat	United States of America	2012-12-18	29/440051	D699130	Emerson Electric Co.
Thermostat Capable Of Displaying Received Information	United States of America	2005-06-20	11/156,391	7,434,742	Emerson Electric Co.
Thermostat Capable Of Displaying Received Information	United States of America	2008-10-13	12/250204	7703694	Emerson Electric Co.
Thermostat Control System Providing Power Saving Transmissions	United States of America	2004-11-17	10/990,897	7,537,171	Emerson Electric Co.
Thermostat For A Heat Pump Or Conventional Heating System	United States of America	2005-07-29	11/193550	7402780	Emerson Electric Co.
Thermostat For Use With Compressor Health Indicator	United States of America	2003-12-31	10/750,113	7032397	Emerson Electric Co.
Thermostat Having Default Curtailment Temperature Settings	United States of America	2005-06-20	11/156973	7364093	Emerson Electric Co.
Thermostat Load Reduction Based On Percentage Change In Energy Price	United States of America	2010-04-23	12/766155	8285419	Emerson Electric Co.

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Thermostat Ornamental Design	United States of America	2022-03-22	29/831,695	N/A	Emerson Electric Co.
Thermostat Responsive To Inputs From External Devices	United States of America	2004-12-22	11/023744	7261243	Emerson Electric Co.
Thermostat Responsive To Inputs From External Devices	United States of America	2007-08-22	11/843380	7731098	Emerson Electric Co.
THERMOSTAT WITH AIR CONDITIONING LOAD MANAGEMENT FEATURE	United States of America	2002-10-16	10/065427	6622926	Emerson Electric Co.
Thermostat With Interchangeable Insert	United States of America	2011-01-13	13/006041	8,644,009	Emerson Electric Co.
Thermostat with Lock for Inhibiting Removal and Access	United States of America	2008-05-01	12/113661	7,569,777	Emerson Electric Co.
Thermostat With One Button Programming Feature	United States of America	2003-02-18	10/248778	6783079	Emerson Electric Co.
Thermostat With One Button Programming Feature	United States of America	2003-08-12	10/604707	6814299	Emerson Electric Co.
Thermostat With Touch Membrane Feature	United States of America	2005-08-04	11/197391	7,556,207	Emerson Electric Co.
Thermostatic Expansion Valve With Check Valve	United States of America	2007-02-14	11/706,789	7,441,563	Emerson Electric Co.
Thermostatic Expansion Valves Including Interchangeable Metering Pins	United States of America	2019-12-05	16/704,749	11,137,182	Emerson Electric Co.
Thermostats	United States of America	2014-03-18	29/485289	D715166	Emerson Electric Co.
Touch Screen Thermostat	United States of America	2007-12-04	29/298371	D589822	Emerson Electric Co.
TOUCHSCREEN WITH CURVED LENS FOR AN ELECTRONIC DEVICE	United States of America	2017-05-01	29/602475	D830860	Emerson Electric Co.
TOUCHSCREEN WITH CURVED LENS FOR AN ELECTRONIC DEVICE	United States of America	2018-08-09	29/659452	D860011	Emerson Electric Co.
Two Mode Thermostat with Set-Back Temperature and Humidity Set-Point Feature	United States of America	2007-04-30	11/796,923	7,793,510	Emerson Electric Co.
Two Mode Thermostat with Set-Back Temperature and Humidity Set-Point Feature	United States of America	2010-08-27	12/870,355	8,863,536	Emerson Electric Co.
Two Mode Thermostat With Set-Back Temperature and Humidity Set-Point Feature	United States of America	2014-10-20	14/518309	10001291	Emerson Electric Co.
Unitary Control For Air Conditioner And/Or Heat Pump	United States of America	2004-04-30	10/836526	7100382	Emerson Electric Co.
Universal Apparatus And Method For Configurably Controlling A Heating Or Cooling System	United States of America	2008-04-22	12/107755	7821218	Emerson Electric Co.
Universal Apparatus and Method for Configurably Controlling a Heating or Cooling System	United States of America	2010-10-26	12/912245	8643315	Emerson Electric Co.
Universal Furnace Controller And Method of Installing Same.	United States of America	2014-10-30	14/528,849	9,689,569	Emerson Electric Co.
Valves, Pressure Sensing Devices, And Controllers For Heating Appliances	European Patent	2012-01-24	12750163.3	2678592	Emerson Electric Co.

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Valves, Pressure Sensing Devices, And Controllers For Heating Appliances	United States of America	2012-01-24	13/983814	8,813,776	Emerson Electric Co.
Variable Capacity Climate Control System For Multi-Zone Space	United States of America	2005-02-23	11/063818	7354005	Emerson Electric Co.
Water Heater Control Using External Temperature Sensor	United States of America	2013-03-14	13/826713	9310098	Emerson Electric Co.
Water Heater Control Using External Temperature Sensor	United States of America	2016-02-23	15/050548	9752798	Emerson Electric Co.
Water Heater With Dry Tank Or Sediment Detection Feature	United States of America	2006-06-27	11/475,533	7,434,544	Emerson Electric Co.
Wireless Control of a Heating or Cooling Unit	United States of America	2011-03-28	13/073286	9,213,342	Emerson Electric Co.
Wirelessly Configuring Climate Control System Controls	United States of America	2018-06-14	16/008,817	11,193,682	Emerson Electric Co.
Wirelessly Configuring Climate Control System Controls	United States of America	2021-11-02	17/517,391	N/A	Emerson Electric Co.
Wirelessly Configuring Climate Control System Controls	United States of America	2022-04-27	17/730,818	N/A	Emerson Electric Co.
Wirelessly Configuring Climate Control System Controls	United States of America	Not yet filed.	N/A	N/A	Emerson Electric Co.
Adaptive Undervoltage Protection for 3-Phase Loads using Singe Current Sensor	United States of America	2022-12-12	63/431,991	N/A	Emerson Electric Co.
Electronic Pressure Augmented Modulation	United States of America	2023-02-27	18/114,542	N/A	Emerson Electric Co.
HVAC Control Assemblies And Corresponding Methods Of Automatic Detection Of Furnace Applications	United States of America	2022-12-20	63/433,997	N/A	Emerson Electric Co.
HVAC Control Assemblies And Corresponding Methods Of Configuring Pinout Of Connectors For HVAC Control Assemblies	United States of America	2022-12-20	63/433,995	N/A	Emerson Electric Co.
LOW PROFILE ELECTRONIC DEVICE	United States of America	2023-03-07	29/872,140	N/A	Emerson Electric Co.
Method and Apparatus for Flame Current Measurement in HVAC System	United States of America	2023-03-02	18/177,509	N/A	Emerson Electric Co.
Methods of adjusting a variable gas valve	United States of America	2022-12-05	18/061,806	N/A	Emerson Electric Co.
Redundant Contactors with Data Based Preventive Maintenance Replacement Indicators	United States of America	2022-12-07	18/077,089	N/A	Emerson Electric Co.
SYSTEMS AND METHODS FOR BLOWER CONTROL IN AN HVAC SYSTEM	United States of America	2023-04-28	18/308,833	N/A	Emerson Electric Co.
SYSTEMS AND METHODS FOR CHECKING STATUS OF A PRESSURE TRANSDUCER	United States of America	2023-01-09	18/151,593	N/A	Emerson Electric Co.
SYSTEMS AND METHODS FOR COMMUNICATION WITH MOTORS IN CLIMATE CONTROL	United States of America	2022-10-24	18/049,043	N/A	Emerson Electric Co.
Systems and Methods For Controlling A Variable Gas Valve	United States of America	2022-12-05	18/061,812	N/A	Emerson Electric Co.
Systems and Methods For Controlling A Variable Gas Valve	United States of America	2022-12-05	18/061,816	N/A	Emerson Electric Co.



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Systems And Methods For Controlling Inducer Motor Speed	United States of America	2023-03-07	18/118,311	N/A	Emerson Electric Co.
SYSTEMS AND METHODS FOR FLAME MONITORING IN GAS POWERED APPLIANCES	United States of America	2023-04-24	18/305,813	N/A	Emerson Electric Co.
Thermostat Method to Manage Temperature Overshoot	United States of America	2022-11-23	17/993,534	N/A	Emerson Electric Co.
THERMOSTATS, METHODS, AND SYSTEMS FOR CONTROLLING HVAC SYSTEMS	United States of America	2023-04-18	18/302,271	N/A	Emerson Electric Co.
Universal solenoid coil and driver.	United States of America	2022-09-28	17/954,661	N/A	Emerson Electric Co.
VALVES FOR FILTER DRIERS AND BI-FLOW FILTER DRIERS INCLUDING THE SAME	United States of America	2022-09-26	17/952,660	N/A	Emerson Electric Co.
HVAC FILTER USAGE ANALYSIS SYSTEM	United States of America	2020-10-19	17/048,993	N/A	Emerson Electric Co.