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Tab settings



102717913

U.S. DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Robertshaw Controls Company

2. Name and address of receiving party(ies)

Name: Deutsche Bank AG, London

Internal Address: Winchester House

1 Great Winchester Street

London, EC2 2EQ, UK Attn: Sean Malone

Street Address: (same)

City: State: Zip:

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

☐ Assignment☐ Merger☒ Security Agreement☐ Change of Name☐ Other

Execution Date: 4/1/2004

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

See Attached Schedule A

B. Patent No.(s)

See Attached Schedule A

Additional numbers attached? ☒ Yes ☐ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Adam M. Grandy, Legal Assistant

Internal Address: c/o Palmer & Dodge LLP

Street Address: 111 Huntington Avenue
at Prudential Center

City: Boston State: MA Zip: 02199

6. Total number of applications and patents involved: 17

7. Total fee (37 CFR 3.41).....\$ 6,920.00

☒ Enclosed☒ Authorized to be charged to deposit account

8. Deposit account number:

16/0085

OPR/FINANCE

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9. Signature.

Adam M. Grandy

Name of Person Signing

Signature

04/02/04

Date

Total number of pages including cover sheet, attachments, and documents:

Documents to be recorded with required cover sheet information to:

Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

700124804

PATENT
REEL: 015271 FRAME: 0850

ROBERTSHAW CONTROLS COMPANY

SCHEDULE A

4.A. Patent Application Numbers:

PATENT	Application /Serial No.	Application Date
Building Marketing System	09/783534	15 February 01
Encased Gas Valve Control Housing Having A Plastic Body And An Over-Molded Seal	09/929378	13 August 01
Magnetic Mounting Assembly	10/004485	2 November 01
Method For Upgrading A Dial Indicator To Provide Remote Indication Capability	10/003622	2 November 01
Rotary Damper Assembly	10/107411	28 March 02
Multiple Input Level Sensor	10/051954	17 January 02
Control Valve With Integral Solenoid Valve & Regulator For Gas Appliances	10/192846	11 July 02
Push-To-Start Appliance Program Timer And Method Utilizing Snap-Action Switch	10/265915	7 October 02
Energy Management System And Method	10/402370	28 March 03
Retrofit Monitoring Device	09/755203	8 January 01
Transformerless Power Supply, Dual Positive Or Dual Negative	09/913859	18 February 00
Switching System For Plural Simmer Voltages	10/058350	30 January 02

4.B. Patent Numbers:

PATENT	Patent No.	Application Date
Defrost Delay Module	6694753	16 July 02
Communications Module And System	6731201	23 February 00
AC Line Voltage Measurement And Control	5546331	10 March 94
Actuator And Method For Controlling Temperatures In A Multiple Compartment Device	6250092	8 February 00
Adaptive Appliance Control Module Including Switching Relay	6078243	12 June 98
Adaptive Control Module Using Shape Memory Alloy	6049267	12 June 98
Ambient Temperature Shape Memory Alloy Actuator	6427712	9 June 99
Burner Construction And Igniter Assembly Therefore	5160255	11 March 92
Burner Construction And Method Of And Apparatus For Making The Same	4951880	13 December 89
Burner Construction And Method Of Making The Same	4684340	23 August 85
Burner Construction And Method Of Making The Same	4749131	20 April 87
Burner Construction And Method Of Making The Same	5328357	16 November 92
Burner Construction, Cooking Apparatus Utilizing The Burner Construction And Methods Of Making The Same	5620317	9 February 95
Burner Control Device And Electrical Switch Unit Assembly, Parts Therefore And Methods Of Making The Same	4843198	31 October 88
Burner Control Device, System And Method Of Making The Same	4640676	20 August 85
Burner Control Device, System And Method Of Making The Same	4872830	14 December 87

PATENT	Patent No.	Application Date
Burner Control Device, System And Method Of Making The Same	4975043	11 August 89
Cam Operated Fuel Valve	5044390	7 September 90
Capacitance Level Measurement Circuit And System	6529017	13 April 01
Capacitance Probe And Spacer Therefore	6380750	25 October 00
Control Device And Method Of Making The Same	5332874	14 January 93
Control Device And Method Of Making The Same	5408385	30 April 93
Control Device And Method Of Making The Same	5424499	25 July 94
Control Device And Method Of Making The Same	5484103	4 November 94
Control Device And Method Of Making The Same	5496976	30 March 95
Control Device And Methods Of Making And Operating The Same	5440443	25 February 93
Control Device And Methods Of Making And Operating The Same	5477108	8 November 94
Control Device And Methods Of Making And Operating The Same	5612848	7 August 95
Control Device Having A Shape Memory Wire, Refrigerator System Utilizing The Control Device And Methods Of Making The Same	5083439	31 October 90
Control Device Having A Shape Memory Wire, Refrigerator System Utilizing The Control Device And Methods Of Making The Same	5144813	20 November 91
Control Device Having An Oscillator Unit That Pulses A Direct Current Through The Filaments Of The Vacuum Fluorescent Display Unit Thereof And Methods Of Making The Same	5365146	14 January 93
Control Device, Parts Therefore And Methods Of Making The Same	5294907	22 June 93

PATENT	Patent No.	Application Date
Control Device, Parts Therefore And Methods Of Making The Same	5396213	23 December 93
Control Module Using Shape Memory Alloy	6016096	12 June 98
Control System And Method Of Making The Same	4922081	23 September 88
Control System And Methods Of Making And Operating The Same	5029244	6 July 89
Control System And Methods Of Making And Operating The Same	5285053	30 December 91
Control System For A Cooking Oven	5015827	22 February 90
Control System For A Microwave Oven And Method Of Making The Same	5616269	7 September 94
Control System For A Microwave Oven, A Microwave Oven Using Such A Control System And Methods Of Making The Same	5653906	31 October 94
Control System, Control Device Therefore And Methods Of Making The Same	5326029	5 August 93
Control System, Control Device Therefore And Methods Of Making The Same	5407128	28 June 94
Control Unit And Method Of Making The Same	4782215	10 December 86
Control Unit And Method Of Making The Same	4829161	26 January 88
Control Unit And Method Of Making The Same	4935607	16 December 88
Control Unit And Method Of Making The Same	4994653	30 November 89
Control Unit And Method Of Making The Same	5126537	4 December 90
Control Unit And Method Of Making The Same	5324918	1 May 92
Control Unit And Method Of Making The Same	5534680	7 June 95

PATENT	Patent No.	Application Date
Cooking Apparatus, Burner Construction Therefore And Methods Of Making The Same	5125390	31 October 91
Crankcase Ventilating System, Flow Control Device Therefore And Method Of Making The Same	4625703	8 April 85
Defrost Control Of A Refrigeration System Utilizing Ambient Air Temperature Determination	5533350	16 December 94
Determination Of Ambient Air Temperature Outside Of An Appliance	5533349	16 December 94
Digital Temperature Sensing Conditioning And Safety System With Current Control	5705792	18 March 96
Distributed Life Cycle Development Tool For Controls	6546297	20 August 99
Dual Rate Burner Construction And Method Of Making The Same	4604049	26 August 85
Electrical System For Controlling The Operation Of A Heat Exchanger Unit, Thermostat Therefore And Methods Of Making The Same	5277363	22 September 92
Electrically Operated Appliance Controls And Methods Of Making The Same	4636621	24 December 84
Electrically Operated Appliance Controls And Methods Of Making The Same	4761540	21 July 87
Electrically Operated Appliance Controls And Methods Of Making The Same	4918293	27 July 88
Electrically Operated Control Device And System For An Appliance And Method Of Operating The Same	4745515	30 May 86
Electrically Operated Control Device And System For An Appliance And Method Of Operating The Same	5218509	15 November 91
Electrically Operated Control Device And System For An Appliance And Methods Of Making The Same	5224014	5 May 92

PATENT	Patent No.	Application Date
Electrically Operated Control Device And System For An Appliance And Method Of Operating The Same	5347420	2 June 93
Electrically Operated Control Device And System For An Appliance And Method Of Operating The Same	5452176	30 August 94
Electrically Operated Control Device And System For An Appliance And Method Of Operating The Same	5652691	7 June 95
Electronic Control Circuit For A Cooking Unit Employing Pulse Width Modulation To Control A Radiant Heating Element	5565123	30 September 94
Electronic Lamp Ballast Dimming Control Means	5165053	30 December 91
Electronic Thermostat For An Oven	5528017	30 September 94
Flame Proof Sealing Mechanism	6484358	28 September 00
Flexible Potentiometer	5724019	27 June 96
Fluid Control Assembly	5988215	30 March 98
Fluid Control Assembly	5988652	30 March 98
Fuel Control Device And Methods Of Making The Same	5447287	24 June 94
Fuel Control Device And Methods Of Making The Same	5743293	21 June 95
Fuel Control Device And Methods Of Making The Same	5638854	21 June 95
Fuel Control Device And Methods Of Making The Same	5904333	26 November 97
Fuel Control Device, Fuel Control System Using The Device And Method Of Making The Device	4779643	15 July 87
Fuel Control Device, Fuel Control System Using The Device And Method Of Making The Device	4813596	10 May 88
Fuel Control Device, Fuel Control System Using The Device And Method Of Making The Device	4862917	3 August 88

PATENT	Patent No.	Application Date
Fuel Control Device, Fuel Control System Using The Device And Method Of Making The Device	4921161	22 December 88
Fuel Control Device, Fuel Control System Using The Device And Method Of Making The Device	4947891	12 July 89
Fuel Control Device, Fuel Control System Using The Device And Method Of Making The Device	5067651	8 April 91
Fuel Control Device, Parts Therefore And Methods Of Making The Same	5620016	8 September 94
Fuel Control System Throttle Valve Unit Therefore And Methods Of Making The Same	4997161	22 February 90
Fuel Control System, Control Device Therefore And Methods Of Making And Operating The Same	5531589	10 February 94
Fuel Control System, Control Means Therefore And Methods Of Making The Same	5364260	28 May 93
Fuel Control System, Parts, And Methods Of Making	6010327	3 March 97
Fuel Control System, Throttle Valve Unit Therefore And Methods Of Making The Same	4921210	21 October 88
Fuel Control Unit For A Gas Furnace And Method Of Making The Same	4971549	14 July 89
Fuel Control Valve Construction	4610269	16 August 85
Fuel Control Valve Construction, Parts Therefore And Methods Of Making The Same	4549571	24 May 84
Fuel Control Valve Construction, Parts Therefore And Methods Of Making The Same	4729396	5 December 86
Fuel Control Valve Construction, Parts Therefore And Methods Of Making The Same	4787414	20 August 87

PATENT	Patent No.	Application Date
Fuel Control Valve Construction, Parts Therefore And Methods Of Making The Same	4921011	8 September 88
Fuel Control Valve Construction, Parts Therefore And Methods Of Making The Same	4971095	20 February 90
Fuel Control Valve Construction, Parts Therefore, And Methods Of Making The Same	4830039	14 December 87
Fuel Feedline And Vapor Barrier Assembly	6446582	24 October 00
Fuel Ignition System And Method Of Making The Same	5314328	19 January 93
Fuel Ignition System And Method Of Making The Same	5437548	21 April 94
Furnace Diagnostic System	6535838	26 January 01
Heat Exchanger Control System, Control Valve Device Therefore And Methods Of Making The Same	5190452	27 April 92
Heat Exchanger System, Fuel Control System Therefore, And Methods Of Making The Same	5209655	18 June 92
Heater Control System And Methods Of Making	5967766	3 March 97
Hot Surface Direct Ignition System For Gas Furnaces	4643668	25 June 84
Hot Surface Direct Ignition System For Gas Furnaces	4997361	13 June 89
Hot Water Tank Construction, Parts Therefore And Methods Of Making The Same	5261438	10 March 93
Hot Water Tank Construction, Parts Therefore And Methods Of Making The Same	5348037	23 August 93
Hot Water Tank Construction, Parts Therefore And Methods Of Making The Same	5419356	6 September 94
Ignition System	4535380	23 May 84

PATENT	Patent No.	Application Date
Jet Burner Construction, Heating Apparatus Utilizing The Jet Burner Construction, And Methods Of Making The Same	5131839	5 June 91
Jet Burner Construction, Heating Apparatus Utilizing The Jet Burner Construction And Method Of Making The Same	5188526	8 May 92
Jet Burner Construction, Heating Apparatus Utilizing The Jet Burner Construction And Methods Of Making The Same	5324195	3 June 93
Liquid Level Sensing Device And Methods Of Making And Operating The Same	5144835	12 July 91
Liquid Level Transmitter	5838241	18 December 96
Method Of Making A Set Burner Construction	5193273	13 May 91
Method Of Making Printed Circuit Arrangement	5687476	19 January 96
Method Of Operating A Control Unit	4899034	18 October 88
Method Of Testing For Leaks In A Closed Fluid Filled System And System Tested By Such Method	5303576	29 September 92
Method Of Testing For Leaks In A Closed Fluid Filled System And System Tested By Such Method	5392637	7 February 94
Multi-Function Water Heater Control Device	6553946	9 June 00
Multiple Electrical Switch Control Device Including Bracket With Severable Plungers And Method	5408057	23 July 93
Multi-Position Rotary Switch With Position Sensor	5150095	4 April 91
Pressure Operated Switch Construction, Parts Therefore And Methods Of Making The Same	5336858	19 August 93
Primary Gas Furnace Control	4626192	2 July 84
Primary Gas Furnace Control	4915614	30 March 89
Primary Gas Furnace Control	5158447	25 January 90

PATENT	Patent No.	Application Date
Printed Circuit Board Arrangement	5525763	28 February 94
Protective Shield For External Electrical Parts Of A Control Arrangement And The Combination Thereof	4554616	2 July 84
Quick Change Pilot Assembly And Method Of Assembly	6095797	8 July 98
Refrigeration Monitor Unit	6453687	8 January 01
Refrigerator System, A Control Device Therefore And Methods Of Making The Same	5361596	17 September 93
Refrigerator System, A Control Device Therefore And Methods Of Making The Same	5460011	14 September 94
Rotary Damper Assembly	6240735	18 February 00
Rotary Switch Construction And Method Of Making The Same	4625084	29 November 84
Solenoid Controlled One-Way Valve	5487407	1 December 94
Solid State Motor Start Method And Apparatus	6160372	14 July 98
Solid State Rotary Entry Control System	4777483	20 December 85
State Indicating Relay	5160909	5 July 91
Supervisory Control System For Microprocessor Based Appliance Controls	4611295	28 June 85
Switching System For Plural Load Circuit	4883983	8 July 88
System For Monitoring A Level Of Material, Device Therefore And Methods Of Making The Same	4942351	28 March 89
Temperature Control Of An Appliance Using Ambient Air Temperature Determination	5524444	16 December 94
Temperature Operated Control System, Control Device Therefore, And Methods Of Making The Same	5168545	9 March 92
Temperature Operated Switch Construction And Method Of Making The Same	5166657	1 April 92

PATENT	Patent No.	Application Date
Temperature Operated Switch Construction And Method Of Making The Same	5257002	16 September 92
Temperature Operated Switch Construction, Terminal Block Therefore And Methods Of Making The Same	5182539	14 April 92
Temperature Operated Switch Construction, Terminal Block Therefore And Methods Of Making The Same	5200732	5 May 92
Temperature Operated Switch Construction, Terminal Block Therefore And Methods Of Making The Same	5231368	2 November 92
Temperature Operated Switch Construction, Terminal Block Therefore And Methods Of Making The Same	5247275	28 December 92
Temperature Regulating Control System For An Oven Of A Cooking Apparatus And Methods Of Making And Operating The Same	5477032	30 September 93
Temperature Regulating Control System For An Oven Of A Cooking Apparatus And Methods Of Making And Operating The Same	5618460	21 September 95
Vacuum Fluorescent Display Filament Drive Circuit	5952788	18 March 96
Valve Construction And Method Of Making The Same	4969628	20 November 89
Valving Assembly	5791631	21 November 95
Vehicle Engine Coolant System And Method Of Making The Same	4848652	9 March 88
Vessel Aperture Adapter	6227264	10 January 00
Water Heater Control	5660328	26 January 96
Water Heating System	6286464	9 June 00
Switch And Relay Using Shape Memory Alloy	6133816	12 June 98

PATENT SECURITY AGREEMENT**WHEREAS:**

- (A) Robertshaw Controls Company (the **Grantor**), a Delaware corporation whose principal place of business is located at P.O. Box 26544, 1701 Byrd Avenue, Richmond, VA 23230-3011, is the owner and user of the patents issued by and/or the patent applications filed with the United States Patent and Trademark Office listed on the attached Schedule A (collectively, the **Patents**).
- (B) The Grantor has entered into:
- (1) a Pledge and Security Agreement dated March 5, 2004 (as amended, modified and supplemented from time to time, the **Pledge and Security Agreement**) between the Grantor and Deutsche Bank AG London, as security agent (the **Security Agent**) for and on behalf of the Secured Creditors (as defined in the Pledge and Security Agreement), pursuant to which the Grantor has granted to the Security Agent for the benefit of the Secured Creditors a security interest in, among other things, the Patents;
 - (2) the Senior Credit Facilities Agreement dated as of March 5, 2004 (as amended, modified and supplemented from time to time, the **Senior Credit Facilities Agreement**) among the Grantor, the Security Agent and the other Senior Finance Parties (as defined in the Pledge and Security Agreement); and
 - (3) the Second Lien Credit Agreement dated as of March 5, 2004 (as amended, modified and supplemented from time to time, the **Second Lien Credit Agreement**, and together with the Senior Credit Facilities Agreement, collectively, the **Facilities Agreements**) among the Grantor, the Security Agent and the other Second Lien Finance Parties (as defined in the Pledge and Security Agreement).
- (C) The parties to the Pledge and Security Agreement and the Facilities Agreements contemplate and intend that, if an Event of Default (as defined in the Pledge and Security Agreement) shall occur and be continuing, the Security Agent, for the benefit of the Secured Creditors, shall have all rights of a secured party in and to the Patents and any proceeds thereof, including, without limitation, the right to exercise its remedies under the Pledge and Security Agreement and the Facilities Agreements in connection with all of the Grantor's right, title and interest in the Patents;

NOW, therefore, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Grantor hereby agrees as follows:

1. The Grantor hereby reconfirms the terms of the Pledge and Security Agreement and the Facilities Agreements. The Grantor further hereby pledges and mortgages to the Security Agent, and grants to the Security Agent, for the benefit of the Secured Creditors, a

security interest in, all of the Grantor's right, title and interest in and to the Patents and all of the Grantor's rights in and to any and all causes of action heretofore or hereafter accrued or accruing for infringement or threatened or alleged infringement of the Patents (collectively, the **Patent Collateral**).

2. The pledge and mortgage of, and grant of security interest in, the Patent Collateral by the Grantor pursuant hereto secures the payment of all Secured Liabilities (as defined in the Pledge and Security Agreement) now or hereafter existing under or in respect of the Pledge and Security Agreement and the Facilities Agreements.
3. The Grantor authorizes and requests that the Commissioner of Patents and Trademarks and any other applicable United States government officer record this Pledge and Security Agreement.
4. This Patent Security Agreement has been entered into in connection with the Pledge and Security Agreement and the Facilities Agreements, and the Grantor and the Security Agent each hereby acknowledges and agrees that the pledge, mortgage and grant of security interest hereunder to, and the rights and remedies of the Security Agent with respect to the Patent Collateral are more fully set forth in the Pledge and Security Agreement and the Facilities Agreements, the terms and provisions of which are incorporated herein by reference.
5. This Patent Security Agreement shall be governed by, and construed in accordance with, the laws of the State of New York.
6. This Patent Security Agreement may be executed in counterparts (and by different parties hereto on different counterparts), each of which shall constitute an original, but all of which when taken together shall constitute a single agreement.

[The remainder of this page is intentionally left blank.]

IN WITNESS WHEREOF, the Grantor and the Security Agent have caused this Patent Security Agreement to be duly executed as a sealed instrument and delivered by its officer thereunto duly authorized as of the 1 day of April, 2004.

Grantor

ROBERTSHAW CONTROLS COMPANY

By: 

Name: Jules Jay Morris

Title: Vice President and Chief Intellectual
Property Counsel

Security Agent

DEUTSCHE BANK AG LONDON, as Security
Agent for and on behalf of the Secured Creditors

By: _____

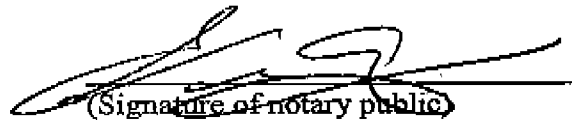
Name: _____

Title: _____

Commonwealth of Massachusetts

County of Suffolk

On this 1st day of April, 2004, before me personally appeared Jules Jay Morris, the person who signed this instrument and who acknowledged that he signed it as a free act on behalf of Robertshaw Controls Company, with authority to do so.



(Signature of notary public)

My commission expires: 4/1/2005

IN WITNESS WHEREOF, the Grantor and the Security Agent have caused this Patent Security Agreement to be duly executed as a sealed instrument and delivered by its officer thereunto duly authorized as of the ____ day of April, 2004.

Grantor

ROBERTSHAW CONTROLS COMPANY

By: _____

Name: Jules Jay Morris

Title: Vice President and Chief Intellectual
Property Counsel

Security Agent

DEUTSCHE BANK AG LONDON, as Security
Agent for and on behalf of the Secured Creditors

By: _____

Name: J. BRAHL S. MALONE

Title: Authorized Signatories

CHEESWRIGHTS**NOTARIES PUBLIC**

10 Philpot Lane London EC3M 8BR
 Telephone: 020 7623 9477 (or) 07000 NOTARIES

Facsimile: 020 7623 5428
 E-mail: notary@cheeswrights.co.uk
www.cheeswrights.co.uk
 DX 627/London City EC3

KINGDOM OF ENGLAND)

) s.s.

CITY OF LONDON)

On this second day of April in the year two thousand and four before me JEREMY BROOKER BURGESS of the City of London NOTARY PUBLIC by royal authority duly admitted and sworn personally came and appeared JASON BRUHL and SEAN MALONE who, being by me duly sworn, did depose and say that they reside at London, England; that they are authorized signatories of DEUTSCHE BANK AG LONDON, the corporation described in and which executed the annexed instrument; that they were duly authorized to sign the said instrument and so signed it; and that the said corporation delivered the same as its act and deed.



Notary Public London, England
 (J. B. BURGESS)

My Commission Expires with Life



N P Ready

Ruth M Campbell J B Burgess E Gardiner
 A J Claudet I A Rogers

PATENT

and at: 29th Floor One Canada Square Canary Wharf London E14 5DY Telephone: 020 7712 1565 Facsimile: 020 7712 1566

REEL: 015271 FRAME: 0867

SCHEDULE A**Patents****ROBERTSHAW CONTROLS COMPANY**

Patent Description	Application Number	Patent Reg. No	Application Date
AC Line Voltage Measurement And Control	208566	5546331	10 March 94
Actuator And Method For Controlling Temperatures In A Multiple Compartment Device	499906	6250092	8 February 00
Adaptive Appliance Control Module Including Switching Relay	094582	6078243	12 June 98
Adaptive Control Module Using Shape Memory Alloy	094581	6049267	12 June 98
Ambient Temperature Shape Memory Alloy Actuator	329190	6427712	9 June 99
Building Marketing System	783534	Pending	15 February 01
Burner Construction And Igniter Assembly Therefore	850336	5160255	11 March 92
Burner Construction And Method Of And Apparatus For Making The Same	450581	4951880	13 December 89
Burner Construction And Method Of Making The Same	769548	4684340	23 August 85
Burner Construction And Method Of Making The Same	040221	4749131	20 April 87
Burner Construction And Method Of Making The Same	976486	5328357	16 November 92
Burner Construction, Cooking Apparatus Utilizing The Burner Construction And Methods Of Making The Same	386010	5620317	9 February 95

Patent Description	Application Number	Patent Reg. No	Application Date
Burner Control Device And Electrical Switch Unit Assembly, Parts Therefore And Methods Of Making The Same	265037	4843198	31 October 88
Burner Control Device, System And Method Of Making The Same	767721	4640676	20 August 85
Burner Control Device, System And Method Of Making The Same	132561	4872830	14 December 87
Burner Control Device, System And Method Of Making The Same	392481	4975043	11 August 89
Cam Operated Fuel Valve	579977	5044390	7 September 90
Capacitance Level Measurement Circuit And System	835272	6529017	13 April 01
Capacitance Probe And Spacer Therefore	696329	6380750	25 October 00
Control Device And Method Of Making The Same	004683	5332874	14 January 93
Control Device And Method Of Making The Same	056350	5408385	30 April 93
Control Device And Method Of Making The Same	279942	5424499	25 July 94
Control Device And Method Of Making The Same	334559	5484103	4 November 94
Control Device And Method Of Making The Same	413692	5496976	30 March 95
Control Device And Methods Of Making And Operating The Same	022132	5440443	25 February 93
Control Device And Methods Of Making And Operating The Same	336174	5477108	8 November 94
Control Device And Methods Of Making And Operating The Same	511818	5612848	7 August 95
Control Device Having A Shape Memory Wire, Refrigerator System Utilizing The Control Device And Methods Of Making The Same	607239	5083439	31 October 90

Patent Description	Application Number	Patent Reg. No	Application Date
Control Device Having A Shape Memory Wire, Refrigerator System Utilizing The Control Device And Methods Of Making The Same	795107	5144813	20 November 91
Control Device Having An Oscillator Unit That Pulses A Direct Current Through The Filaments Of The Vacuum Fluorescent Display Unit Thereof And Methods Of Making The Same	004702	5365146	14 January 93
Control Device, Parts Therefore And Methods Of Making The Same	081082	5294907	22 June 93
Control Device, Parts Therefore And Methods Of Making The Same	173348	5396213	23 December 93
Control Module Using Shape Memory Alloy	094580	6016096	12 June 98
Control System And Method Of Making The Same	248395	4922081	23 September 88
Control System And Methods Of Making And Operating The Same	376388	5029244	6 July 89
Control System And Methods Of Making And Operating The Same	815944	5285053	30 December 91
Control System For A Cooking Oven	483570	5015827	22 February 90
Control System For A Microwave Oven And Method Of Making The Same	301592	5616269	7 September 94
Control System For A Microwave Oven, A Microwave Oven Using Such A Control System And Methods Of Making The Same	332112	5653906	31 October 94
Control System, Control Device Therefore And Methods Of Making The Same	102375	5326029	5 August 93
Control System, Control Device Therefore And Methods Of Making The Same	267564	5407128	28 June 94
Control Unit And Method Of Making	939872	4782215	10 December 86

Patent Description	Application Number	Patent Reg. No	Application Date
The Same			
Control Unit And Method Of Making The Same	148542	4829161	26 January 88
Control Unit And Method Of Making The Same	285723	4935607	16 December 88
Control Unit And Method Of Making The Same	444444	4994653	30 November 89
Control Unit And Method Of Making The Same	621998	5126537	4 December 90
Control Unit And Method Of Making The Same	877314	5324918	1 May 92
Control Unit And Method Of Making The Same	487206	5534680	7 June 95
Cooking Apparatus, Burner Construction Therefore And Methods Of Making The Same	786182	5125390	31 October 91
Crankcase Ventilating System, Flow Control Device Therefore And Method Of Making The Same	720876	4625703	8 April 85
Defrost Control Of A Refrigeration System Utilizing Ambient Air Temperature Determination	357928	5533350	16 December 94
Determination Of Ambient Air Temperature Outside Of An Appliance	357931	5533349	16 December 94
Digital Temperature Sensing Conditioning And Safety System With Current Control	617172	5705792	18 March 96
Distributed Life Cycle Development Tool For Controls	378509	6546297	20 August 99
Dual Rate Burner Construction And Method Of Making The Same	769572	4604049	26 August 85

Patent Description	Application Number	Patent Reg. No	Application Date
Electrical System For Controlling The Operation Of A Heat Exchanger Unit, Thermostat Therefore And Methods Of Making The Same	949405	5277363	22 September 92
Electrically Operated Appliance Controls And Methods Of Making The Same	685775	4636621	24 December 84
Electrically Operated Appliance Controls And Methods Of Making The Same	076045	4761540	21 July 87
Electrically Operated Appliance Controls And Methods Of Making The Same	225042	4918293	27 July 88
Electrically Operated Control Device And System For An Appliance And Method Of Operating The Same	869137	4745515	30 May 86
Electrically Operated Control Device And System For An Appliance And Method Of Operating The Same	792881	5218509	15 November 91
Electrically Operated Control Device And System For An Appliance And Methods Of Making The Same	878548	5224014	5 May 92
Electrically Operated Control Device And System For An Appliance And Method Of Operating The Same	071075	5347420	2 June 93
Electrically Operated Control Device And System For An Appliance And Method Of Operating The Same	298116	5452176	30 August 94
Electrically Operated Control Device And System For An Appliance And Method Of Operating The Same	487207	5652691	7 June 95
Electronic Control Circuit For A Cooking Unit Employing Pulse Width Modulation To Control A Radiant Heating Element	316102	5565123	30 September 94
Electronic Lamp Ballast Dimming Control Means	814768	5165053	30 December 91
Electronic Thermostat For An Oven	316207	5528017	30 September 94

Patent Description	Application Number	Patent Reg. No	Application Date
Encased Gas Valve Control Housing Having A Plastic Body And An Over-Molded Seal	929378	Pending	13 August 01
Flame Proof Sealing Mechanism	672325	6484358	28 September 00
Flexible Potentiometer	669795	5724019	27 June 96
Fluid Control Assembly	050838	5988215	30 March 98
Fluid Control Assembly	050839	5988652	30 March 98
Fuel Control Device And Methods Of Making The Same	267111	5447287	24 June 94
Fuel Control Device And Methods Of Making The Same	492780	5743293	21 June 95
Fuel Control Device And Methods Of Making The Same	492959	5638854	21 June 95
Fuel Control Device And Methods Of Making The Same	980095	5904333	26 November 97
Fuel Control Device, Fuel Control System Using The Device And Method Of Making The Device	073811	4779643	15 July 87
Fuel Control Device, Fuel Control System Using The Device And Method Of Making The Device	192337	4813596	10 May 88
Fuel Control Device, Fuel Control System Using The Device And Method Of Making The Device	227764	4862917	3 August 88
Fuel Control Device, Fuel Control System Using The Device And Method Of Making The Device	288761	4921161	22 December 88
Fuel Control Device, Fuel Control System Using The Device And Method Of Making The Device	378972	4947891	12 July 89
Fuel Control Device, Fuel Control System Using The Device And Method Of Making The Device	682445	5067651	8 April 91

Patent Description	Application Number	Patent Reg. No	Application Date
Fuel Control Device, Parts Therefore And Methods Of Making The Same	303157	5620016	8 September 94
Fuel Control System Throttle Valve Unit Therefore And Methods Of Making The Same	483571	4997161	22 February 90
Fuel Control System, Control Device Therefore And Methods Of Making And Operating The Same	194244	5531589	10 February 94
Fuel Control System, Control Means Therefore And Methods Of Making The Same	068755	5364260	28 May 93
Fuel Control System, Parts, And Methods Of Making	813956	6010327	3 March 97
Fuel Control System, Throttle Valve Unit Therefore And Methods Of Making The Same	260817	4921210	21 October 88
Fuel Control Unit For A Gas Furnace And Method Of Making The Same	380893	4971549	14 July 89
Fuel Control Valve Construction	766204	4610269	16 August 85
Fuel Control Valve Construction, Parts Therefore And Methods Of Making The Same	613462	4549571	24 May 84
Fuel Control Valve Construction, Parts Therefore And Methods Of Making The Same	938621	4729396	5 December 86
Fuel Control Valve Construction, Parts Therefore And Methods Of Making The Same	087419	4787414	20 August 87
Fuel Control Valve Construction, Parts Therefore And Methods Of Making The Same	241966	4921011	8 September 88
Fuel Control Valve Construction, Parts Therefore And Methods Of Making The Same	483090	4971095	20 February 90

Patent Description	Application Number	Patent Reg. No	Application Date
Fuel Control Valve Construction, Parts Therefore, And Methods Of Making The Same	132572	4830039	14 December 87
Fuel Feedline And Vapor Barrier Assembly	696107	6446582	24 October 00
Fuel Ignition System And Method Of Making The Same	005590	5314328	19 January 93
Fuel Ignition System And Method Of Making The Same	230728	5437548	21 April 94
Furnace Diagnostic System	772252	6535838	26 January 01
Heat Exchanger Control System, Control Valve Device Therefore And Methods Of Making The Same	874722	5190452	27 April 92
Heat Exchanger System, Fuel Control System Therefore, And Methods Of Making The Same	900891	5209655	18 June 92
Heater Control System And Methods Of Making	810515	5967766	3 March 97
Hot Surface Direct Ignition System For Gas Furnaces	624014	4643668	25 June 84
Hot Surface Direct Ignition System For Gas Furnaces	365476	4997361	13 June 89
Hot Water Tank Construction, Parts Therefore And Methods Of Making The Same	028990	5261438	10 March 93
Hot Water Tank Construction, Parts Therefore And Methods Of Making The Same	110532	5348037	23 August 93
Hot Water Tank Construction, Parts Therefore And Methods Of Making The Same	301249	5419356	6 September 94
Ignition System	613183	4535380	23 May 84

Patent Description	Application Number	Patent Reg. No	Application Date
Jet Burner Construction, Heating Apparatus Utilizing The Jet Burner Construction, And Methods Of Making The Same	710658	5131839	5 June 91
Jet Burner Construction, Heating Apparatus Utilizing The Jet Burner Construction And Method Of Making The Same	880725	5188526	8 May 92
Jet Burner Construction, Heating Apparatus Utilizing The Jet Burner Construction And Methods Of Making The Same	072232	5324195	3 June 93
Liquid Level Sensing Device And Methods Of Making And Operating The Same	729495	5144835	12 July 91
Liquid Level Transmitter	768528	5838241	18 December 96
Magnetic Mounting Assembly	004485	Pending	2 November 01
Method For Upgrading A Dial Indicator To Provide Remote Indication Capability	003622	Pending	2 November 01
Method Of Making A Set Burner Construction	698942	5193273	13 May 91
Method Of Making Printed Circuit Arrangement	588966	5687476	19 January 96
Method Of Operating A Control Unit	259189	4899034	18 October 88
Method Of Testing For Leaks In A Closed Fluid Filled System And System Tested By Such Method	953477	5303576	29 September 92
Method Of Testing For Leaks In A Closed Fluid Filled System And System Tested By Such Method	192667	5392637	7 February 94
Multi-Function Water Heater Control Device	591440	6553946	9 June 00
Multiple Electrical Switch Control Device Including Bracket With Severable Plungers And Method	096758	5408057	23 July 93

Patent Description	Application Number	Patent Reg. No	Application Date
Multi-Position Rotary Switch With Position Sensor	680523	5150095	4 April 91
Pressure Operated Switch Construction, Parts Therefore And Methods Of Making The Same	110612	5336858	19 August 93
Primary Gas Furnace Control	627038	4626192	2 July 84
Primary Gas Furnace Control	331617	4915614	30 March 89
Primary Gas Furnace Control	470064	5158447	25 January 90
Printed Circuit Board Arrangement	202791	5525763	28 February 94
Protective Shield For External Electrical Parts Of A Control Arrangement And The Combination Thereof	627047	4554616	2 July 84
Quick Change Pilot Assembly And Method Of Assembly	111533	6095797	8 July 98
Refrigeration Monitor Unit	755194	6453687	8 January 01
Refrigerator System, A Control Device Therefore And Methods Of Making The Same	122681	5361596	17 September 93
Refrigerator System, A Control Device Therefore And Methods Of Making The Same	306161	5460011	14 September 94
Rotary Damper Assembly	506998	6240735	18 February 00
Rotary Damper Assembly	107411	Pending	28 March 02
Rotary Switch Construction And Method Of Making The Same	676440	4625084	29 November 84
Solenoid Controlled One-Way Valve	348540	5487407	1 December 94
Solid State Motor Start Method And Apparatus	114889	6160372	14 July 98
Solid State Rotary Entry Control System	811520	4777483	20 December 85
State Indicating Relay	726264	5160909	5 July 91

Patent Description	Application Number	Patent Reg. No	Application Date
Supervisory Control System For Microprocessor Based Appliance Controls	750066	4611295	28 June 85
Switching System For Plural Load Circuit	216801	4883983	8 July 88
System For Monitoring A Level Of Material, Device Therefore And Methods Of Making The Same	329437	4942351	28 March 89
Temperature Control Of An Appliance Using Ambient Air Temperature Determination	357930	5524444	16 December 94
Temperature Operated Control System, Control Device Therefore, And Methods Of Making The Same	848304	5168545	9 March 92
Temperature Operated Switch Construction And Method Of Making The Same	861476	5166657	1 April 92
Temperature Operated Switch Construction And Method Of Making The Same	945490	5257002	16 September 92
Temperature Operated Switch Construction, Terminal Block Therefore And Methods Of Making The Same	869160	5182539	14 April 92
Temperature Operated Switch Construction, Terminal Block Therefore And Methods Of Making The Same	878672	5200732	5 May 92
Temperature Operated Switch Construction, Terminal Block Therefore And Methods Of Making The Same	969984	5231368	2 November 92
Temperature Operated Switch Construction, Terminal Block Therefore And Methods Of Making The Same	997673	5247275	28 December 92
Temperature Regulating Control System For An Oven Of A Cooking Apparatus And Methods Of Making And Operating The Same	130019	5477032	30 September 93

Patent Description	Application Number	Patent Reg. No	Application Date
Temperature Regulating Control System For An Oven Of A Cooking Apparatus And Methods Of Making And Operating The Same	531540	5618460	21 September 95
Vacuum Fluorescent Display Filament Drive Circuit	617173	5952788	18 March 96
Valve Construction And Method Of Making The Same	439599	4969628	20 November 89
Valving Assembly	562018	5791631	21 November 95
Vehicle Engine Coolant System And Method Of Making The Same	165774	4848652	9 March 88
Vessel Aperture Adapter	480751	6227264	10 January 00
Water Heater Control	592254	5660328	26 January 96
Water Heating System	591209	6286464	9 June 00
		Pending	
Multiple Input Level Sensor	051954	Pending	17 January 02
Control Valve With Integral Solenoid Valve & Regulator For Gas Appliances	192846	Pending	11 July 02
Defrost Delay Module	196536	Pending	16 July 02
Push-To-Start Appliance Program Timer And Method Utilizing Snap-Action Switch	265915	Pending	7 October 02
Energy Management System And Method	402370	Pending	28 March 03
Communications Module And System	511313	Pending	23 February 00
Retrofit Monitoring Device	755203	Pending	8 January 01
Transformerless Power Supply, Dual Positive Or Dual Negative	913859	Pending	18 February 00
Switching System For Plural Simmer Voltages	058350	Pending	30 January 02

Patent Description	Application Number	Patent Reg. No	Application Date
Switch And Relay Using Shape Memory Alloy	094579	6133816	12 June 98

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