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

1. Name of conveying party(ies):

Ranco Incorporated of Delaware

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

3. Nature of conveyance:

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

Execution Date: 5/4/2004

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) & 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: 681

7. Total fee (37 CFR 3.41).....\$ 2,720.00

☒ Enclosed☒ Authorized to be charged to deposit account

8. Deposit account number:

16/0085

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9. Signature.

Adam M. Grandy

Name of Person Signing

Signature

05/17/2004

Date

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PATENT
REEL: 015320 FRAME: 0126

RANCO INCORPORATED OF DELAWARE

SCHEDULE A

4.A. Patent Application Numbers:

PATENT	Application /Serial No.	Application Date
Flame Sense Circuit With Analog Output	384303	07 March 2003
Rotary drive mechanism and appliance timer/sequence switch utilizing same	871005	31 May 2001
System and Method For Performing Diagnostics Using A Portable Device	141775	10 May 2002
System and method for securely upgrading firmware	983637	25 October 2001
System and method for switching-over between heating and cooling modes	983651	25 October 2001
Time controls with enhanced timing range	903368	11 July 2001
Thermostat with Configurable Service Contact Information and Reminder Timers	713292	14 November 2003
Aluminum Burner for Gaseous Fuel and Method of Making Same	978861	26 November 1997

4.B. Patent Numbers:

PATENT	Patent No.	Application Date
Automatic fluid temperature controller and washing machine incorporating same	US6305610	09 June 2000
Automotive coolant control valve	US6681805	28 November 2001
Automotive coolant control valve	US6688333	14 February 2003
Battery saving circuit for a dangerous condition warning device	US5966078	18 February 1998
CAM operated diverter valve	US6206043	08 November 1999
Dangerous condition warning device incorporating a time-limited hush mode of operation to defeat an audible low battery warning signal	US5969600	18 February 1998

PATENT	Patent No.	Application Date
Dangerous condition warning device incorporating provision for permanently retaining printed protocol instructions	US5912626	10 October 1997
Driver circuitry for latching type valve and the like	US6262620	02 November 1999
Electric valve assembly and method of making same	US5941502	31 October 1996
Electrically enhanced hot surface igniter	US5951276	30 May 1997
Electromechanical appliance programmer/timer	US6483052	20 March 2001
Electronic oven temperature controller having adaptable temperature regulation limits	US6381518	17 August 1999
Electronic variable orifice tube and system for use therewith	US6182457	02 June 1999
Gas/air ratio control apparatus for a temperature control loop for gas appliances	US5630408	27 May 1994
Gaseous fuel burner manifold with integral pressure regulator assembly	US6062245	21 November 1997
Heat detector having an increased accuracy alarm temperature threshold and improved low temperature testing capabilities	US6288638	19 April 2000
Heater with duty cycle controller	US4777350	09 October 1984
I/O Bus Expansion System Wherein Processor Checks Plurality of Possible Address until a Response from the Peripheral Selected by Address Decoder Using User Input	US5860028	01 February 1996
Ice bank system	US5987897	28 May 1998
Igniting and sensing flame on a fuel gas burner	US5741129	23 December 1996
Latching coil valve	US6073904	02 October 1997
Method and apparatus for generating dual point top burner spark for gas range and dual port burner incorporating same	US5934896	10 April 1998
Method and apparatus for testing a carbon monoxide sensor	US5886638	18 February 1998
Method for joining a tube and a plate	US5655298	07 January 1997

PATENT	Patent No.	Application Date
Method of and apparatus for controlling a process	US5726880	03 May 1996
Method of attaching supply conduit to a solenoid operated valve	US6070606	16 July 1997
Method of manufacturing an aluminum burner cap	US6070324	06 March 1998
Multiple disc pressure responsive control device	US4667069	16 August 1985
Multi-station dangerous condition alarm system incorporating alarm and chirp origination feature	US5933078	29 July 1997
Panel mounted controller and integrated selector switch	US6288349	18 August 1999
Refrigeration system flow control expansion valve	US5715704	08 July 1996
Refrigeration system subcooling flow control valve	US5156017	19 March 1991
Remote Display Arrangement for Appliances	US4916439	30 April 1987
Reversing valve and method	US5507315	06 June 1995
Reversing valve and method	US5878781	06 June 1995
Reversing valve and method	US5911242	16 September 1994
Ribbon port burner for gas range	US6135764	09 April 1998
Self locking knob attachment shaft for program timers	US6201200	18 March 1999
Self-calibrating defrost controller	US5507154	01 July 1994
Self-test routine and circuit for LED display	US6028441	14 August 1997
Self-test routine for LED display	US6087846	18 May 1999
Single knob rotary oven control apparatus providing continuous and discrete control information	US6079401	10 December 1998
Smoke alarm with dual sensing technologies and dual power sources	US6362743	09 August 2000

PATENT	Patent No.	Application Date
Switch harness assembly for gas burner manifold	US6096987	12 August 1994
Tapped variable potentiometer resistor with current sense and safety circuit	US5812411	28 January 1997
Temperature sensing apparatus and method of making same	US5043692	13 November 1989
Temperature transducer assembly	US5454641	13 January 1994
Temperature transducer assembly	US5707151	11 July 1994
Thermostat with remote temperature sensors and incorporating a measured temperature feature for averaging ambient temperatures at selected sensors	US5803357	19 February 1997
Visual indicator for identifying which of a plurality of dangerous condition warning devices has issued an audible low battery warning signal	US5966079	18 February 1998
Zero cross relay actuation method and system implementing same	US6233132	01 September 1999
System and Method for Sampling an AC Switch	US6614355	25 October 2001
Electrical Programmer Switch on an Intermittent Drive Mechanism	US4755635	29 May 1987
Push to Turn Mechanism	US5129283	31 August 1990
Fuel/Air Supply for Gas Burner	US5873713	13 September 1996
Wave Washer Port Ring Gas Top Burner	US5875974	10 April 1998
Noise Filtering Utilizing Running Averaging	US5764542	11 January 1996
Enhanced Visual and Audible Signaling for Sensed Alarm Condition	US6646566	23 May 2000
Apparatus & Method for Providing Alarm Synchronization Among Multiple Alarm Devices	US6614347	30 January 2001
Mechanism for Micro Switch Securement	US5130505	28 September 1990

PATENT SECURITY AGREEMENT

May 4, 2004

WHEREAS:

- (A) Ranco Incorporated of Delaware (the **Grantor**), a Delaware corporation whose registered address is located at 1209 Orange Street, Wilmington, Delaware 19801, 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, each of the Grantor and the Security Agent has caused this Patent Security Agreement to be duly executed as a sealed instrument and delivered by its officer thereunto duly authorized as of the 3rd day of May, 2004.

Grantor

RANCO INCORPORATED OF DELAWARE

By: 

Name: Jules Jay Morris

Title: Vice President, Chief Intellectual Property Counsel

Security Agent

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

By: _____

Name: _____

Title: _____

IN WITNESS WHEREOF, each of the Grantor and the Security Agent has 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 May, 2004.

Grantor

RANCO INCORPORATED OF DELAWARE

By: _____

Name:

Title:

Security Agent

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

By: _____

Name:

Title:

Jason Bruhl *Sean Malone*
Authorized Signatories

COMMONWEALTH OF MASSACHUSETTS

COUNTY OF NORFOLK

On this 3rd day of May, 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 Ranco Incorporated of Delaware, with authority to do so.

Regina M. Shilcutt

WITNESSETH (Signature of notary public)

My commission expires: 10-7-05

CHEESWRIGHTS

NOTARIES PUBLIC

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Facsimile: 020 7623 5428
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KINGDOM OF ENGLAND)

) s.s.

CITY OF LONDON)

On this tenth day of May 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 IA Rogers

PATENT
REEL: 015320 FRAME: 0136

SCHEDULE A
PATENTS

Patent Description	Application Number	Patent Reg. Number	Application Date
Automatic fluid temperature controller and washing machine incorporating same	591460	US6305610	09 June 2000
Automotive coolant control valve	997118	US6681805	28 November 2001
Automotive coolant control valve	248767	US6688333	14 February 2003
Battery saving circuit for a dangerous condition warning device	025590	US5966078	18 February 1998
CAM operated diverter valve	435577	US6206043	08 November 1999
Dangerous condition warning device incorporating a time-limited hush mode of operation to defeat an audible low battery warning signal	025498	US5969600	18 February 1998

Patent Description	Application Number	Patent Reg. Number	Application Date
Dangerous condition warning device incorporating provision for permanently retaining printed protocol instructions	948855	US5912626	10 October 1997
Driver circuitry for latching type valve and the like	431820	US6262620	02 November 1999
Electric valve assembly and method of making same	741458	US5941502	31 October 1996
Electrically enhanced hot surface igniter	865674	US5951276	30 May 1997
Electromechanical appliance programmer/timer	813229	US6483052	20 March 2001
Electronic oven temperature controller having adaptable temperature regulation limits	376031	US6381518	17 August 1999
Electronic variable orifice tube and system for use therewith	324461	US6182457	02 June 1999

Patent Description	Application Number	Patent Reg. Number	Application Date
Flame Sense Circuit With Analog Output	384303		07 March 2003
Gas/air ratio control apparatus for a temperature control loop for gas appliances	250277	US5630408	27 May 1994
Gaseous fuel burner manifold with integral pressure regulator assembly	975960	US6062245	21 November 1997
Heat detector having an increased accuracy alarm temperature threshold and improved low temperature testing capabilities	552380	US6288638	19 April 2000
Heater with duty cycle controller	658696	US4777350	09 October 1984
I/O Bus Expansion System Wherein Processor Checks Plurality of Possible Address until a Response from the Peripheral Selected by Address Decoder Using User Input	595383	US5860028	01 February 1996
Ice bank system	086334	US5987897	28 May 1998

Patent Description	Application Number	Patent Reg. Number	Application Date
Igniting and sensing flame on a fuel gas burner	780021	US5741129	23 December 1996
Latching coil valve	942924	US6073904	02 October 1997
Method and apparatus for generating dual point top burner spark for gas range and dual port burner incorporating same	058020	US5934896	10 April 1998
Method and apparatus for testing a carbon monoxide sensor	025719	US5886638	18 February 1998
Method for joining a tube and a plate	779423	US5655298	07 January 1997
Method of and apparatus for controlling a process	642403	US5726880	03 May 1996
Method of attaching supply conduit to a solenoid operated valve	895073	US6070606	16 July 1997
Method of manufacturing an aluminum burner cap	036144	US6070324	06 March 1998

Patent Description	Application Number	Patent Reg. Number	Application Date
Multiple disc pressure responsive control device	766829	US4667069	16 August 1985
Multi-station dangerous condition alarm system incorporating alarm and chirp origination feature	902190	US5933078	29 July 1997
Panel mounted controller and integrated selector switch	376224	US6288349	18 August 1999
Refrigeration system flow control expansion valve	678553	US5715704	08 July 1996
Refrigeration system subcooling flow control valve	671370	US5156017	19 March 1991
Remote Display Arrangement for Appliances	045725	US4916439	30 April 1987
Reversing valve and method	468538	US5507315	06 June 1995
Reversing valve and method	467295	US5878781	06 June 1995

Patent Description	Application Number	Patent Reg. Number	Application Date
Reversing valve and method	307348	US5911242	16 September 1994
Ribbon port burner for gas range	057926	US6135764	09 April 1998
Rotary drive mechanism and appliance timer/sequence switch utilizing same	871005		31 May 2001
Self locking knob attachment shaft for program timers	271576	US6201200	18 March 1999
Self-calibrating defrost controller	269843	US5507154	01 July 1994
Self-test routine and circuit for LED display	911331	US6028441	14 August 1997
Self-test routine for LED display	314043	US6087846	18 May 1999
Single knob rotary oven control apparatus providing continuous and discrete control information	208940	US6079401	10 December 1998

Patent Description	Application Number	Patent Reg. Number	Application Date
Smoke, alarm with dual sensing technologies and dual power sources	634972	US6362743	09 August 2000
Switch, harness assembly for gas burner manifold	289679	US6096987	12 August 1994
System and Method For Performing Diagnostics Using A Portable Device	141775		10 May 2002
System and method for securely upgrading firmware	983637		25 October 2001
System and method for switching-over between heating and cooling modes	983651		25 October 2001
Tapped variable potentiometer resistor with current sense and safety circuit	790008	US5812411	28 January 1997
Temperature sensing apparatus and method of making same	435989	US5043692	13 November 1989
Temperature transducer assembly	180671	US5454641	13 January 1994

Patent Description	Application Number	Patent Reg. Number	Application Date
Temperature transducer assembly	273588	US5707151	11 July 1994
Thermostat with remote temperature sensors and incorporating a measured temperature feature for averaging ambient temperatures at selected sensors	801346	US5803357	19 February 1997
Time controls with enhanced timing range	903368		11 July 2001
Visual indicator for identifying which of a plurality of dangerous condition warning devices has issued an audible low battery warning signal	025720	US5966079	18 February 1998
Zero cross relay actuation method and system implementing same	388042	US6233132	01 September 1999
System and Method for Sampling an AC Switch	983634	US6614355	25 October 2001
Thermostat with Configurable Service Contact Information and Reminder Timers	713292		14 November 2003

Patent Description	Application Number	Patent Reg. Number	Application Date
Electrical Programmer Switch on an Intermittent Drive Mechanism	055384	US4755635	29 May 1987
Push to Turn Mechanism	575758	US5129283	31 August 1990
Fuel/Air Supply for Gas Burner	691987	US5873713	13 September 1996
Wave Washer Port Ring Gas Top Burner	058021	US5875974	10 April 1998
Noise Filtering Utilizing Running Averaging	584902	US5764542	11 January 1996
Aluminum Burner for Gaseous Fuel and Method of Making Same	978861		26 November 1997
Enhanced Visual and Audible Signaling for Sensed Alarm Condition	069708	US6646566	23 May 2000
Apparatus & Method for Providing Alarm Synchronization Among Multiple Alarm Devices	771687	US6614347	30 January 2001

Patent Description	Application Number	Patent Reg. Number	Application Date
Mechanism for Micro Switch Securement	590263	US5130505	28 September 1990