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To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)

Curtis Instruments, Inc.

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

3. Nature of conveyance/Execution Date(s):

Execution Date(s) 12/16/2005

- ☐ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Joint Research Agreement
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☒ Other Grant of Security Interest

2. Name and address of receiving party(ies)

Name: The Bank of New York, as

Internal Address: Administrative Agent

Street Address: 123 Main Street

City: White Plains

State: New York

Country: USA Zip: 10602

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

4. Application or patent number(s):

A. Patent Application No.(s)

☐ This document is being filed together with a new application.

B. Patent No.(s)

D288,791; 27,556; 3,193763

Additional numbers attached? ☒ Yes ☐ No

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

Name: Penelope J.A. Agodoa

Internal Address: Federal Research Company, LLC

Street Address: 1023 15th Street, NW, Suite 401

City: Washington, DC

State: 20005 Attn: Penelope J.A. Agodoa

Phone Num 202.783.2700

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Email Address:

6. Total number of applications and patents involved: 58

7. Total fee (37 CFR 1.21(h) & 3.41) \$

- ☐ Authorized to be charged by credit card
☒ Authorized to be charged to deposit account
☐ Enclosed
☐ None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers
Expiration Date

b. Deposit Account Number 50-3155

Authorized User Name Federal Research

9. Signature:

Janelle Teleford
Signature

12-29-05
Date

Name of Person Signing

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

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1460, Alexandria, V.A. 22313-1460

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Schedule 1
to
Grant of Security Interest (Patents)
Dated as of December 16, 2005

<u>Patent No.</u>	<u>Date of Issue</u>	<u>Description</u>
D288,791	11/07/83	Battery State-of-Charge Meter - expired
Re. 27,556 Original No. 3,045,178	Reissued 1/23/1973 Original Issue 7/17/1962	Operating Time Indicator
3,193,763	7/6/1965	Electrolytic Coulometer Current Integrating Device
3,255,413	6/7/1966	Electro-Chemical Coulometer including Differential Capacitor Measuring Elements
3,293,731	12/27/1966	Method of Making A Coulometer Device
3,343,083	9/19/1967	Nonself-Destructive Reversible Electrochemical Coulometer
3,462,684	8/19/1969	Apparatus For Detecting The Position of an Electrochemical Coulometer Gap
3,706,036	12/12/1972	Elapsed Time Compiling System
4,740,754	4/26/88	Bidirectional Battery State-of-Charge Monitor - expired
5,374,881	12/20/94	Electric Motor Controller (SP)
6,208,245	3/27/01	Engine Oil Change Indicator System
6,362,601	3/26/02	Method of Battery Charge Restoration based on estimated battery state of health
6,380,716	4/30/02	Condition Monitoring of Opportunity Charged Batteries
6,439,067	08/27/02	Shaft Sensor Assembly for Angular Velocity, torque, & power
6,611,116	08/26/03	Sensorless anti-spin control for a dual electronic motor system (SP)
6,622,069	09/16/03	Auto-trim for differentially steered dual electronic motor system
D387,333	12/09/97	Heatsink enclosure for an electronic controller
4,514,694	04/30/85	Quiescent battery testing method and apparatus (SP)
4,712,195	12/08/87	Solid-state cumulative operations measurement system
4,728,923	03/01/88	Steerable wheel direction indicator
5,261,025	11/09/93	Method and apparatus for DC motor speed control (SP)
4,560,937	12/24/85	Battery state of charge metering method and apparatus expired
4,388,618	06/14/83	Battery state of charge indicator operating on bidirectional integrations of terminal voltage expired
4,626,750	12/02/86	Solid state frequency dc motor control (SP) expired
4,724,332	02/09/88	Synchronous load lock-out control system for battery powered equipment
5,032,999		(assigned to Yale) Motion sensor useful for power assisted steering systems
5,148,107		(assigned to Yale) Inductive proximity switch means and methods
5,202,682	04/13/93	Date encodement and reading method and apparatus
5,451,881	09/19/95	Electronic motor controller (SP)
2,005,123	8/13/99	(Canadian patent) Means and method for measuring
6,181,106	01/30/01	Sequential high-rate charging of battery cells

6,202,039	03/13/01	Compact, low cost semiconductor device for receiving arbitrary input parameters and driving selected display devices and methods
6,456,043	09/24/02	Method of diagnosing the state of health of a battery
4,852,104	07/25/89	Solid state reader device for a cumulative operations measurement system
5,247,253	09/21/93	Eddy current proximity sensing means and method useful for determining throttle position
4,460,870	07/17/84	Quiescent voltage sampling battery state of charge meter
4,288,734	09/08/81	Bidirectional integrator
4,193,026	03/11/80	Method and apparatus for measuring the state of charge of a battery by monitoring reductions in voltage
4,192,009	03/04/80	Coulometric device for performing time integration
4,186,339	01/29/80	Method and apparatus for measuring current, especially useful in multi-ampere systems
4,139,896	02/13/79	Method and apparatus for producing nonlinear integral functions
4,017,724	04/12/77	Apparatus for measuring battery depletion by monitoring reductions in voltage
4,012,681	03/15/77	Battery control system for battery operated vehicles
4,001,688	01/04/77	Coulometer with end of integration color change indicator
3,992,668	11/16/76	Electro-thermal readout of coulometers
3,992,667	11/16/76	Electro-thermal readout coulometer
20020005304	01/17/02	Anti-spin control for separately excited motor drive system Don't know this patent Is it 6,611,116?
3,628,143	12/14/71	Reusable Mercury Coulometer
3,657,647	4/18/72	Variable Bore Mercury Microcoulometer
3,665,308	5/23/72	Package for an Electrochemical Elapsed Time Meter
3,686,566	8/22/72	Method of Operating a Coulometer Device
3,704,431	11/28/72	Coulometer Controlled Variable Frequency Generator
3,704,432	11/28/72	Capacitive Coulometer Improvements
3,742,388	6/26/73	Coulometer Controller Method and Apparatus for Generating an Electrical Function
3,777,266	12/4/73	Programmable Integrator
3,778,702	12/11/73	Operating Time Remaining Computer
3,863,154	1/28/75	Switched Integrator
4,006,415	11/16/76	Fast Reset Integrator

SECURITY AGREEMENT**GRANT OF SECURITY INTEREST (PATENTS)**

The undersigned, a New York corporation (the "**Grantor**"), is obligated to THE BANK OF NEW YORK, as Administrative Agent (the "**Secured Party**"), and has entered into the Security Agreement, dated as of December 1st, 2005 (as amended, supplemented or otherwise modified from time to time, the "**Security Agreement**"), in favor of the Secured Party.

Pursuant to the Agreement, the Grantor granted to the Secured Party a security interest in and to all of the right, title and interest of the Grantor in and to the patents listed on Schedule 1, which patents are registered in the United States Patent and Trademark Office (the "**Patents**"), together with the goodwill of the business symbolized by the Patents and the applications and registrations thereof, and all proceeds thereof, including, without limitation, any and all causes of action which may exist by reason of infringement thereof (the "**Collateral**"), to secure the prompt payment, performance and observance of the Bank Loan Obligations and Note Agreement Obligations (as defined in the Agreement).

For good and valuable consideration, the receipt of which is hereby acknowledged, and for the purpose of recording the grant of the security interest as aforesaid, the Grantor does hereby further assign to the Secured Party, and grant to the Secured Party a security interest in, the Collateral to secure the prompt payment, performance and observance of the Bank Loan Obligations and Note Agreement Obligations (as defined in the Agreement).

The Grantor does hereby further acknowledge and affirm that the rights and remedies of the Secured Party with respect to the assignment of and security interest in the Collateral made and granted hereby are set forth in the Agreement, the terms and provisions of which are hereby incorporated herein by reference as if fully set forth herein.

The Secured Party's address is: 123 Main Street, White Plains, New York 10602.

IN WITNESS WHEREOF, the Grantor has caused this Grant of Security Interest to be duly executed by its duly authorized officer as of the 16th day of December, 2005.

CURTIS INSTRUMENTS, INC.

By: 

Stuart E. Marwell
President

STATE OF New York)
) ss.
COUNTY OF Westchester

On the 15 day of December in the year 2005 before me, the undersigned, personally appeared Stuart E. Marwell, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his capacity, and that by his signature on the instrument, the individual or the person upon behalf of which the individual acted, executed the instrument.

Sharon Powers
Notary Public

My Commission Expires:

9-6-2009

SHARON POWERS
Notary Public, State of New York
Qualified in Westchester County
Commission Expires April 28
9-6-2009