PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3449129

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY AGREEMENT

CONVEYING PARTY DATA

Name	Execution Date
CURTIS INSTRUMENTS, INC.	07/07/2015

RECEIVING PARTY DATA

Name:	TD BANK, N.A.
Street Address:	3020 WESTCHESTER AVENUE
City:	PURCHASE
State/Country:	NEW YORK
Postal Code:	10577

PROPERTY NUMBERS Total: 36

Property Type	Number
Patent Number:	9046559
Patent Number:	8751084
Patent Number:	8602140
Patent Number:	8535152
Patent Number:	7898203
Patent Number:	6622069
Patent Number:	6611116
Patent Number:	6456043
Patent Number:	6439067
Patent Number:	6380716
Patent Number:	6362601
Patent Number:	6208245
Patent Number:	6202039
Patent Number:	6181106
Patent Number:	D387333
Patent Number:	5451881
Patent Number:	5374881
Patent Number:	5261025
Patent Number:	5247253
Patent Number:	5202682

PATENT REEL: 036151 FRAME: 0428

503402495

Property Type	Number
Patent Number:	4852104
Patent Number:	4740754
Patent Number:	4728923
Patent Number:	4724332
Patent Number:	4712195
Patent Number:	D288791
Patent Number:	4626750
Patent Number:	4560937
Patent Number:	4514694
Patent Number:	4460870
Patent Number:	4388618
Patent Number:	4288734
Patent Number:	4193026
Patent Number:	4017724
Patent Number:	5148107
Patent Number:	5032999

CORRESPONDENCE DATA

Fax Number: (800)494-7512

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 202-370-4750

Email: ipteam@nationalcorp.com
Correspondent Name: DWAYNE C. HOUSTON

Address Line 1: 1025 VERMONT AVENUE NW, SUITE 1130 Address Line 2: NATIONAL CORPORATE RESEARCH, LTD.

Address Line 4: WASHINGTON, D.C. 20005

ATTORNEY DOCKET NUMBER:	F156927
NAME OF SUBMITTER:	ASHLEY N. BECHTEL
SIGNATURE:	/Ashley N. Bechtel/
DATE SIGNED:	07/22/2015

Total Attachments: 7

source=Curtis - Grants of Security Interest (Patents)#page2.tif source=Curtis - Grants of Security Interest (Patents)#page3.tif source=Curtis - Grants of Security Interest (Patents)#page4.tif source=Curtis - Grants of Security Interest (Patents)#page5.tif source=Curtis - Grants of Security Interest (Patents)#page6.tif source=Curtis - Grants of Security Interest (Patents)#page7.tif source=Curtis - Grants of Security Interest (Patents)#page8.tif

GRANT OF SECURITY INTEREST (PATENTS)

The undersigned, CURTIS INSTRUMENTS, INC., a New York corporation (the "Grantor"), and TD BANK, N.A., as Administrative Agent, (the "Administrative Agent") are parties to a Security Agreement, dated as of July 7, 2015 (as amended, supplemented or otherwise modified from time to time, the "Security Agreement"). All capitalized terms used but not otherwise defined herein have the meanings given to them in the Security Agreement.

Pursuant to the Security Agreement, as security for the payment or performance, as applicable, in full of the Obligations, the Grantor collaterally assigned, mortgaged, pledged and hypothecated to the Administrative Agent, and granted to the Administrative Agent, a security interest in, all of the right, title and interest of the Grantor in, to and under the Collateral, including, without limitation, certain of its intellectual property.

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, as security for the payment or performance, as applicable, in full of the Obligations, hereby collaterally assigns, mortgages, pledges and hypothecates to the Administrative Agent, and grants to the Administrative Agent, a security interest in, all of the right, title and interest of the Grantor in, to and under the following property of the Grantor, now owned or hereafter acquired by the Grantor (collectively, the "Patent Collateral"):

- (a) all patents and registrations thereof, including the patents listed on <u>Schedule 1</u> attached hereto (collectively, the "*Patents*"); and
- (b) all proceeds thereof, including, without limitation, from any and all causes of action which may exist by reason of infringement thereof.

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

The Administrative Agent's address is: 3020 Westchester Avenue, Purchase, New York 10577.

7228834_1

IN WITNESS WHEREOF, the Grantor has caused this Grant of Security Interest (Patents) to be duly executed by its duly authorized officer as of July 7, 2015.

CURTISANSTRUMENTS, INC.

Name: Stuart E. Marwell

Title: President

[Signature Page to Grant of Security Interest (Patents)]
PATENT

REEL: 036151 FRAME: 0431

Schedule 1 to Grant of Security Interest (Patents) Dated as of July 7, 2015

Title	Patent Number or Application Number	Patent or Application <u>Issue Date</u>
Isolation Monitor	9,046,559	06/02/15
Vehicle component recognition and adjustment for energy efficiency	8,751,084	06/10/14
Motor Controller and integrated safety function to eliminate requirement for external contactor	8,602,140	12/10/13
Integrated game function in a personal mobility vehicle, such as a wheelchair	8,535,152	09/17/13
Systems and methods for dynamically compensating motor resistance in electric motors	7,898,203	03/01/11
Automatic motor adjustment for differentially steered dual electric motor system	6,622,069	09/16/03
Anti-spin control for a separately excited motor drive system	6,611,116	08/26/03
Method of diagnosing the state of health of a battery	6,456,043	09/24/02
Shaft sensor assembly for angular velocity, torque, and power	6,439,067	08/27/02
Condition monitoring of opportunity charge batteries	6,380,716	04/30/02
Method of battery charge restoration based on estimated battery plate deterioration and/or based on battery state of health	6,362,601	03/26/02

Title	Patent Number or Application Number	Patent or Application Issue Date
Engine Oil change indicator system	6,208,245	03/27/01
Compact, low-cost semiconductor device for receiving arbitrary input parameters and driving selected display devices, and methods	6,202,039	03/13/01
Sequential high-rate charging of battery cells	6,181,106	01/30/01
Heatsink enclosure for an electrical controller	D387,333	12/09/97
Method and means for adjusting battery monitor based on rate of current drawn from the battery	5,451,881	09/19/95
Electric motor controller	5,374,881	12/20/94
Method and apparatus fro DC motor speed control	5,261,025	11/09/93
Eddy current proximity sensing means and method useful for setermining throttle position	5,247,253	09/21/93
Data encodement and reading method and apparatus	5,202,682	04/13/93
Solid-state reader device for cumulative operations measurement system	4,852,104	07/25/89
Bidirectional battery state-of-charge monitor	4,740,754	04/26/88
Steerable wheel direction indicator	4,728,923	03/01/88
Synchronous load lock-out control system for battery powered equipment	4,724,332	02/09/88
Solid-state cumulative operations measurement system	4,712,195	12/28/87

Title	Patent Number or Application Number	Patent or Application Issue Date
Battery state-of-charge meter	D288,791	03/17/87
Solid state d.c. motor control	4,626,750	12/02/86
Battery state of charge metering methods and apparatus	4,560,937	12/24/85
Quiescent battery testing method and apparatus	4,514,694	04/30/85
Quiescent voltage sampling battery state of charge meter	4,460,870	07/17/84
Battery state of charge indicator operating on biodirectional integrations of terminal voltage	4,388,618	06/14/83
Bidirectional integrator	4,288,734	09/08/81
Method and apparatus for measuring the state of charge of a battery by monitoring reductions in voltage	4,193,026	03/11/80
Coulometric device for performing time integration	4,192,009	03/04/80
Method and apparatus for measuring current, especially useful in multi-ampere systems	4,186,339	01/29/80
Method and apparatus for producing nonlinear functions	4,139,896	02/13/79
Apparatus for measuring battery depletion by monitoring reductions in voltage	4,017,724	04/12/77
Battery control system for battery operated vehicles	4,012,681	03/15/77
Fast reset integrator	4,006,415	02/01/77
Coulometer with end of integration	4,001,688	01/04/77

Title	Patent Number or Application Number	Patent or Application <u>Issue Date</u>
color change indicator		
Electro-thermal readout of coulometers	3,992,668	11/16/76
Electro-thermal readout of coulometer	3,992,667	11/16/76
Operating Time indicator	RE27556	Reissued 1/23/1973; Original issue 7/17/1962
Electrolytic cooulometer Current Integrating Device	3,193,763	07/05/65
Electro-Chemical Coulometer including Differencial Capacitor Measuring Elements	3,255,413	06/07/66
Method of making a Coulometer Device	3,293,731	12/27/66
Nonself-Destructive reversible Electrochemical Coulometer	3,343,083	09/19/67
Apparatus for detecting the position of an electrochemical coulometer gap	3,462,684	08/19/69
Elapsed time compiling system	3,706,036	12/12/72
Motion sensor useful for power assisted steering systems	5,032,999	07/16/91
Inductive Proximity switch means and methods	5,148,107	09/19/92
Means and methos of measuring	2,005,123	08/13/99
Reusable mercury coulometer	3,628,143	12/14/71
Variable bore mercury microcoulometer	3,657,647	11/16/76

Title	Patent Number or Application Number	Patent or Application Issue Date
Package for an electricochemicl elapsed time meter	3,665,308	05/23/72
Method for operating a coulometer device	3,685,566	08/22/72
Coulometer controlled variable frequency generator	3,704,431	11/28/72
Capacitive coulometer improvements	3,704,432	11/28/72
Coulomeyer controller method and apparatus for generating an electrical function	3,742,388	06/26/73
Programmable integrator	3,777,266	12/04/73
Operating time remaining computer	3,778,702	12/11/73
Switched integrator	3,863,154	01/28/75

RECORDED: 07/22/2015