

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT5946288

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ADAM H. ING	02/25/2019
YADUNANDANA YELLAMBALASE	01/29/2020
RICK RAJAIE	05/01/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	NIO USA, INC.
<b>Street Address:</b>	3200 NORTH FIRST STREET
<b>City:</b>	SAN JOSE
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	95134
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15954286
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(303)863-0223
<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>	303-863-9700
<b>Email:</b>	aduarte@sheridanross.com
<b>Correspondent Name:</b>	SHERIDAN ROSS P.C.
<b>Address Line 1:</b>	1560 BROADWAY
<b>Address Line 2:</b>	SUITE 1200
<b>Address Line 4:</b>	DENVER, COLORADO 80202
<b>ATTORNEY DOCKET NUMBER:</b>	8322-400
<b>NAME OF SUBMITTER:</b>	DOUGLAS W. SWARTZ
<b>SIGNATURE:</b>	/Douglas W. Swartz/
<b>DATE SIGNED:</b>	02/04/2020
<b>Total Attachments: 9</b>	
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Worldwide Assignment

WHEREAS, I, **Adam H. Ing** of 101 Leland Avenue, San Francisco, California 94134, have invented certain new and useful inventions ("Inventions") described in whole or part in the United States Non-Provisional Patent Applications identified in Exhibit "A" (hereinafter "Applications"); and

WHEREAS, **NIO USA, Inc.** ("ASSIGNEE"), a corporation duly registered in the State of California, whose postal address is 3200 North First Street, San Jose, California 95134, desires to acquire the entire right, title, and interest in and to the Inventions, the United States, international, and foreign applications filed or to be filed directed to the Inventions and any Letters Patents to be granted for the Inventions in the United States and in all foreign countries;

NOW, THEREFORE, be it known that for and in consideration of certain good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto ASSIGNEE, its successors, legal representatives, and assigns, the entire right, title, and interest in and to the Inventions for all territories in the world and any improvements and modifications thereto, the Applications, all applications claiming benefit of the Applications, including, but not limited to, all divisional, continuation, and continuation-in-part applications, and reissue and reexaminations thereof; all Letters Patent, Invention Registrations, Utility Models, Extension and other patent rights, that may be granted thereon in the United States or any other country; together with the right to claim priority under the International Convention in all member countries (collectively "Related Applications"); and all causes of action arising therefrom including the right to enforce and sue for past, present, and future infringements and to collect all proceeds thereof (including, but not limited to, all license royalties). I authorize and request the United States Patent and Trademark Office or foreign equivalent to issue all Letters Patent or similar legal protection for the Inventions to ASSIGNEE, its successors, legal representatives, and assigns in accordance with the terms of this Assignment;

For, and in consideration of, the certain good and valuable consideration, I do further sell, assign, transfer, and set over to ASSIGNEE, the right to claim priority to the Applications for all Related Applications, including without limitation all applications pursuant to the Patent Cooperation Treaty and national and regional applications filed therefrom, all applications for the territory of the United States of America, and all continuation, divisional, continuation-in-part and reissue applications thereof, and all patent applications in foreign countries and the right to be granted a patent for any of the foregoing applications;

AND I covenant and agree that I have the full right to convey the entire right, title, and interest herein assigned and that I have not executed and will not execute any assignment or other instrument in conflict with this Assignment;

AND I further covenant and agree that upon request by ASSIGNEE, its successors, legal representatives, and/or assigns, and without further consideration, I will do all lawful acts that may be necessary or desirable to assist ASSIGNEE, its successors, legal representatives, and/or assigns to obtain and enforce patent protection for the Inventions in the United States and in all foreign countries, it being understood that any expense incident to the rendering of such assistance will be borne by ASSIGNEE, its successors, legal representatives, and/or assigns.

This Assignment may be executed in counterparts, and said counterparts being deemed as original Assignment documents collectively.

IN WITNESS WHEREOF, the parties hereto have executed this Assignment as of the date indicated hereunder.

Date: 2019-02-25

By:   
Adam H. Ing

ASSIGNEE:

NIO USA, INC.

Date: 2/25/2019

By:   
Signature

Julian Ong  
Printed Name

VP, General Counsel  
Title

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**EXHIBIT "A"**

<b>SR File No.</b>	<b>Title</b>	<b>Serial No.</b>	<b>Filing Date</b>
8322-177	Power Systems and Methods for Electric Vehicles	15/712,532	9/22/2017
8322-357	Multiple-Zone Thermocouple Battery Module Temperature Monitoring System	15/928,780	3/22/2018
8322-400	Systems and Methods of Battery Thermal Management	15/954,286	4/16/2018
8322-401	Method and System for Secondary Internal Current Mechanisms for a Lithium-Ion Cell	16/168,497	10/23/2018
8322-443	Two-Phase Semi-Immersion Thermal System for Energy Storage and Other Electrical/Electronic Devices	16/165,401	10/19/2018
8322-453	Method and System for Joining Cells to a Battery Coldplate	16/210,150	12/5/2018
8322-459	Laminate Busbars for Battery Module Design	16/230,499	12/21/2018
8322-466	Supplemental Battery System	16/141,768	9/25/2018

## Worldwide Assignment

WHEREAS, I, **Yadunandana Yellambalase** of 50 E Middlefield Road, Apt. 4, Mountain View, CA 94043, have invented certain new and useful inventions (“Inventions”) described in whole or part in the United States provisional, United States non-provisional, and PCT applications identified in Exhibit “A” (hereinafter “Applications”); and

WHEREAS, **NIO USA, Inc.** (“ASSIGNEE”), a corporation duly registered in the State of California, whose postal address is 3200 North First Street, San Jose, California 95134, desires to acquire the entire right, title, and interest in and to the Inventions, the United States, international, and foreign applications filed or to be filed directed to the Inventions and any Letters Patents to be granted for the Inventions in the United States and in all foreign countries;

NOW, THEREFORE, be it known that for and in consideration of certain good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto ASSIGNEE, its successors, legal representatives, and assigns, the entire right, title, and interest in and to the Inventions for all territories in the world and any improvements and modifications thereto, the Applications, all applications claiming benefit of the Applications, including, but not limited to, all divisional, continuation, and continuation-in-part applications, and reissue and reexaminations thereof; all Letters Patent, Invention Registrations, Utility Models, Extension and other patent rights, that may be granted thereon in the United States or any other country; together with the right to claim priority under the International Convention in all member countries (collectively “Related Applications”); and all causes of action arising therefrom including the right to enforce and sue for past, present, and future infringements and to collect all proceeds thereof (including, but not limited to, all license royalties). I authorize and request the United States Patent and Trademark Office or foreign equivalent to issue all Letters Patent or similar legal protection for the Inventions to ASSIGNEE, its successors, legal representatives, and assigns in accordance with the terms of this Assignment;

For, and in consideration of, the certain good and valuable consideration, I do further sell, assign, transfer, and set over to ASSIGNEE, the right to claim priority to the Applications for all Related Applications, including without limitation all applications pursuant to the Patent Cooperation Treaty and national and regional applications filed therefrom, all applications for the territory of the United States of America, and all continuation, divisional, continuation-in-part and reissue applications thereof, and all patent applications in foreign countries and the right to be granted a patent for any of the foregoing applications;

AND I covenant and agree that I have the full right to convey the entire right, title, and interest herein assigned and that I have not executed and will not execute any assignment or other instrument in conflict with this Assignment;

AND I further covenant and agree that upon request by ASSIGNEE, its successors, legal representatives, and/or assigns, and without further consideration, I will do all lawful acts that may be necessary or desirable to assist ASSIGNEE, its successors, legal representatives, and/or assigns to obtain and enforce patent protection for the Inventions in the United States and in all foreign countries, it being understood that any expense incident to the rendering of such assistance will be borne by ASSIGNEE, its successors, legal representatives, and/or assigns.

This Assignment may be executed in counterparts, and said counterparts being deemed as original Assignment documents collectively.

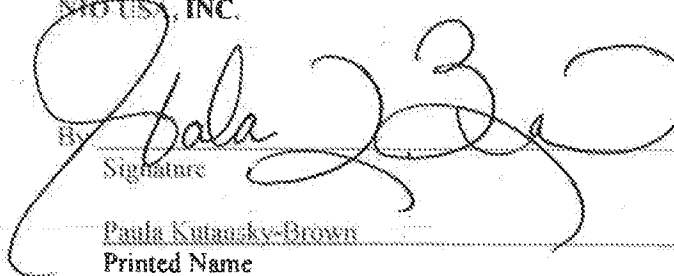
IN WITNESS WHEREOF, the parties hereto have executed this Assignment as of the date indicated hereunder.

Date: 1/29/2020

By: Yadunandan Yellambalase  
Yadunandan Yellambalase

ASSIGNEE:

Date: 02.09.2020

NOTUS, INC.  
By:   
Signature  
Paula Kutansky-Brown  
Printed Name  
General Counsel  
Title

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**EXHIBIT "A"**

<b>SR File No.</b>	<b>Title</b>	<b>Serial No.</b>	<b>Filing Date</b>
8322-400	SYSTEMS AND METHODS OF BATTERY THERMAL MANAGEMENT	15/954,286	4/16/2018
8322-466	SUPPLEMENTAL BATTERY SYSTEM	16/141,768	9/25/2018

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Worldwide Assignment

WHEREAS, I, **Rick Rajaie** of 645 1763 Quincy Drive, Rochester Hills, Michigan 48306, have invented certain new and useful inventions ("Inventions") described in whole or part in the United States Non-Provisional Applications identified in Exhibit "A" (hereinafter "Applications"); and

WHEREAS, **NIO USA, Inc.** ("ASSIGNEE"), a corporation duly registered in the State of California, whose postal address is 3200 North First Street, San Jose, California 95134, desires to acquire the entire right, title, and interest in and to the Inventions, the United States, international, and foreign applications filed or to be filed directed to the Inventions and any Letters Patents to be granted for the Inventions in the United States and in all foreign countries;

NOW, THEREFORE, be it known that for and in consideration of certain good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto ASSIGNEE, its successors, legal representatives, and assigns, the entire right, title, and interest in and to the Inventions for all territories in the world and any improvements and modifications thereto, the Applications, all applications claiming benefit of the Applications, including, but not limited to, all divisional, continuation, and continuation-in-part applications, and reissue and reexaminations thereof; all Letters Patent, Invention Registrations, Utility Models, Extension and other patent rights, that may be granted thereon in the United States or any other country; together with the right to claim priority under the International Convention in all member countries (collectively "Related Applications"); and all causes of action arising therefrom including the right to enforce and sue for past, present, and future infringements and to collect all proceeds thereof (including, but not limited to, all license royalties). I authorize and request the United States Patent and Trademark Office or foreign equivalent to issue all Letters Patent or similar legal protection for the Inventions to ASSIGNEE, its successors, legal representatives, and assigns in accordance with the terms of this Assignment;

For, and in consideration of, the certain good and valuable consideration, I do further sell, assign, transfer, and set over to ASSIGNEE, the right to claim priority to the Applications for all Related Applications, including without limitation all applications pursuant to the Patent Cooperation Treaty and national and regional applications filed therefrom, all applications for the territory of the United States of America, and all continuation, divisional, continuation-in-part and reissue applications thereof, and all patent applications in foreign countries and the right to be granted a patent for any of the foregoing applications;

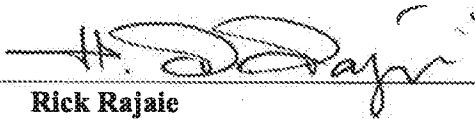
AND I covenant and agree that I have the full right to convey the entire right, title, and interest herein assigned and that I have not executed and will not execute any assignment or other instrument in conflict with this Assignment;

AND I further covenant and agree that upon request by ASSIGNEE, its successors, legal representatives, and/or assigns, and without further consideration, I will do all lawful acts that may be necessary or desirable to assist ASSIGNEE, its successors, legal representatives, and/or assigns to obtain and enforce patent protection for the Inventions in the United States and in all foreign countries, it being understood that any expense incident to the rendering of such assistance will be borne by ASSIGNEE, its successors, legal representatives, and/or assigns.

This Assignment may be executed in counterparts, and said counterparts being deemed as original Assignment documents collectively.

IN WITNESS WHEREOF, the parties hereto have executed this Assignment as of the date indicated hereunder.

Date: 05/01/2019

By:   
Rick Rajaie

**ASSIGNEE:**

NIO USA, INC.

Date: 5/1/2019

By:   
Signature

Julian Ong  
Printed Name

VP, General Counsel  
Title

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EXHIBIT "A"

SR File No.	Title	Serial No.	Filing Date
8322-365	USE OF AN INSIDE CONDENSER TO MAXIMIZE TOTAL THERMAL SYSTEM PERFORMANCE	15/983,285	5/18/2018
8322-372	THERMAL MANAGEMENT COOLANT VALVES AND PUMPS MODULAR COMBINATION	15/909,281	3/1/2018
8322-400	SYSTEMS AND METHODS OF BATTERY THERMAL MANAGEMENT	15/954,286	4/16/2018
8322-414	THERMAL SYSTEM TOPOLOGY OF CASCADED REFRIGERANT AND COOLANT CIRCUITS	15/983,289	5/18/2018
8322-417	METHODS AND DEVICES FOR THERMAL CONTROL DURING CHARGING OF ELECTRIC VEHICLES	15/940,638	3/29/2018
8322-453	METHOD AND SYSTEM FOR JOINING CELLS TO A BATTERY COLDPLATE	16/210,150	12/5/2018

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