506925350 10/15/2021

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT6972186

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SHAHRIAR JALAL NIBIR	10/12/2021
YEN-MO CHEN	10/12/2021
SUNGKEUN LIM	10/12/2021

RECEIVING PARTY DATA

Name:	RENESAS ELECTRONICS AMERICA INC.
Street Address:	1001 MURPHY RANCH ROAD
City:	MILPITAS
State/Country:	CALIFORNIA
Postal Code:	95035

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17502613

CORRESPONDENCE DATA

Fax Number: (516)742-4366

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.

516-742-4343 Phone:

Email: imoses@ssmp.com

SCULLY, SCOTT, MURPHY & PRESSER PC **Correspondent Name:**

Address Line 1: 400 GARDEN CITY PLAZA

Address Line 2: SUITE 300

Address Line 4: GARDEN CITY, NEW YORK 11530

ATTORNEY DOCKET NUMBER:	39639
NAME OF SUBMITTER:	CHUNG WEI CHUNG
SIGNATURE:	/Chao Wei Chung/
DATE SIGNED:	10/15/2021

Total Attachments: 6

source=39639_R211355-US_Dec_Assign_Shahriar_Jalal_Nibir_Draft_signed#page1.tif source=39639 R211355-US Dec Assign Shahriar Jalal Nibir Draft signed#page2.tif source=39639 R211355-US Dec Assign Yen-Mo Chen Draft signed#page1.tif

PATENT REEL: 057809 FRAME: 0846 506925350

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PATENT REEL: 057809 FRAME: 0847

SSMP DOCKENT NO.:	39639
RENESAS REF. NO.:	R211355-US

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE

Title of Invention:	DISCHARGE CURRENT LIMIT LOOP FOR SHORT CIRCUIT PROTECTION IN REVERSE OPERATION FOR BUCK-BOOST BATTERY CHARGERS
As the below na	med inventor, I hereby declare that:
This declaration	is directed to:
\boxtimes	the attached application, or
	United States application or PCT international application number filed on

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I am aware of the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR 1.56.

Whereas, the undersigned inventor has made certain inventions, improvements and discoveries (herein referred to as the "Invention") disclosed in the above-identified patent application;

Whereas, RENESAS ELECTRONICS AMERICA INC., having a place of business at 1001 MURPHY RANCH ROAD, MILPITAS, CALIFORNIA 95035, USA, desires to acquire, and the undersigned inventor desires to grant to RENESAS ELECTRONICS AMERICA INC., the entire worldwide right, title and interest in and to any and all patent applications and patents directed thereto:

Now, therefore, in consideration of One Dollar (\$1.00), and other good and valuable considerations, the receipt of which is hereby acknowledged, the undersigned inventor hereby sells, assigns and transfers to **RENESAS ELECTRONICS AMERICA INC.** (the "Assignee"), its successors, assigns and legal representatives, the entire right, title and interest for all countries, in and to the Invention, the above-identified United States patent application, and any and all other patent applications and patents for the Invention which may be applied for or granted therefor in the United States and in all foreign countries and jurisdictions, including all divisional, continuing, substitute, reexamination, renewal, reissue and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, the undersigned inventor hereby authorizes and requests the Commissioner of Patents to issue, in

PAGE 1 OF 2

SSMP-RENESAS DECASSIGN (12-2020)

accordance with this assignment, any and all United States Letters Patent, and foreign patent authorities to issue any foreign patent, granted for the Invention to said Assignee, its successors, assigns and legal representatives; and agreeing to carry out in good faith the intent and purpose of this assignment, the undersigned inventor will, for the United States and all foreign countries, execute all divisional, continuing, substitute, renewal, reissue and all other patent applications on any and all said improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns and legal representatives, all facts known to the undersigned inventor relating to said improvements and the history thereof; testify in all legal proceedings; and generally do everything possible which said Assignee, its successors, assigns or legal representatives shall consider desirable for aiding in securing, maintaining and enforcing proper patent protection for said improvements and for vesting title to said improvements and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns and legal representatives; and

Covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned inventor, and that full right to convey the same as herein expressed is possessed by the undersigned inventor.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

LEGAL NAME OF IN	VENTOR		
Inventor (Printed Name):	Shahriar Jalal Nibir	Date (MM-DD-YYYY):	10-12-2021
Signature:	Tradrisa	-	

LEGAL NAME OF INVENTOR

SCULLY, SCOTT, MURPHY & PRESSER, PC

400 GARDEN CITY PLAZA, SUITE 300, GARDEN CITY, NY 11530 Telephone: (516) 742-4343 Facsimile: (516) 742-4366 Email: intprop@ssmp.com

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SSMP-RENESAS DECASSIGN (12-2020)

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LEGAL NAME OF IN	VENTOR			
Inventor (Printed Name):	Yen-Mo Chen	Date (MM-DD-YYYY):	10-12-2021	
Signature:	J20 62			

SCULLY, SCOTT, MURPHY & PRESSER, PC

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PAGE 1 OF 2 SSMP-RENESAS DECASSIGN (12-2020)

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LEGAL NAME OF IN	VENTOR		
Inventor (Printed Name):	Sungkeun LIM	Date (MM-DD-YYYY):	10-12-2021
Signature:	Ken	<u> </u>	

SCULLY, SCOTT, MURPHY & PRESSER, PC

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> > **PATENT REEL: 057809 FRAME: 0853**