

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT7215645

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
SHUANG HAN	03/05/2022
FAN ZHANG	03/05/2022
SONGNAN YANG	03/04/2022
RECEIVING PARTY DATA	
Name:	HALO MICROELECTRONICS CO., LTD.
Street Address:	UNIT 305-308, BLOCK A8, QIANDENG LAKE VENTURE CAPITAL TOWN, NO. 6
Internal Address:	GUILAN NORTH ROAD, GUICHENG STREET, NANHAI DISTRICT, GUANGDONG PROVINCE
City:	FOSHAN CITY
State/Country:	CHINA
Postal Code:	528200
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	17690655
CORRESPONDENCE DATA	
Fax Number:	(972)732-9218
<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>	
Phone:	972-732-1001
Email:	docketing@slatermatsil.com
Correspondent Name:	SLATER MATSIL, LLP
Address Line 1:	17950 PRESTON RD, SUITE 1000
Address Line 4:	DALLAS, TEXAS 75252-5793
ATTORNEY DOCKET NUMBER:	LIU-0110US01-HAL
NAME OF SUBMITTER:	KAREN VERTZ
SIGNATURE:	/Karen Vertz/
DATE SIGNED:	03/09/2022
Total Attachments: 2	
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ASSIGNMENT

WHEREAS, I, the undersigned inventor (or one of the undersigned joint inventors), of residence as listed, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made; and

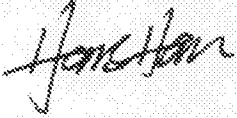

WHEREAS, Halo Microelectronics Co., Ltd. ("Assignee"), a corporation organized and existing under the laws of China, with its principal office at Unit 305-308, Block A8, Qiandeng Lake Venture Capital Town, No. 6, Guilan North Road, Guicheng Street, Nanhai District, Foshan City, Guangdong Province, China, 528200 is desirous of acquiring my entire right, title and interest in and to said invention, and to said application and any Letters Patent that may issue thereon in the United States and all other countries throughout the world;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign to said Assignee, its successors and assigns, my entire right, title and interest in and to said invention and in and to said application and all patents which may be granted therefor, and all future non-provisional applications including divisions, reissues, substitutions, continuations, and extensions thereof; and I hereby authorize and request the Commissioner for Patents to issue all patents for said invention, or patent resulting therefrom, insofar as my interest is concerned, to said Assignee, as assignee of my entire right, title and interest. I declare that I have not executed and will not execute any agreement in conflict herewith.

I also hereby sell and assign to Assignee, its successors and assigns, my foreign rights to the invention disclosed in said application, in all countries of the world, including, but not limited to, the right to file applications and obtain patents under the terms of the International Convention for the Protection of Industrial Property, and of the European Patent Convention, and further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights.

I hereby further agree that I will communicate to said Assignee, or to its successors, assigns, and legal representatives, any facts known to me respecting said invention or the file history thereof, and at the expense of said Assignee, its legal representatives, successors, or assigns, will testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, reissue and substitute applications, make all lawful oaths, and generally do everything possible to aid said Assignee, its legal representatives, successors, and assigns, to obtain and enforce proper patent protection for said invention in all countries.

IN WITNESS WHEREOF, I hereunto set my hand and seal this day and year;

TITLE OF INVENTION	Battery Charging and Discharging Circuit and Terminal Devices			
SIGNATURE OF INVENTOR AND NAME	 Shuang Han	 Fan Zhang	Songnan Yang	
DATE	Mar. 5th 2022	Mar. 5th 2022		
RESIDENCE	Foshan City, China	Foshan City, China	Frisco, TX, US	

ASSIGNMENT

WHEREAS, I, the undersigned inventor (or one of the undersigned joint inventors), of residence as listed, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made; and

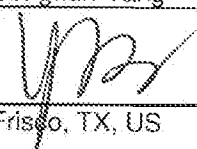
WHEREAS, Halo Microelectronics Co., Ltd. ("Assignee"), a corporation organized and existing under the laws of China, with its principal office at Unit 305-308, Block A8, Qiandeng Lake Venture Capital Town, No. 6, Guilan North Road, Guicheng Street, Nanhai District, Foshan City, Guangdong Province, China, 528200 is desirous of acquiring my entire right, title and interest in and to said invention, and to said application and any Letters Patent that may issue thereon in the United States and all other countries throughout the world;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign to said Assignee, its successors and assigns, my entire right, title and interest in and to said invention and in and to said application and all patents which may be granted therefor, and all future non-provisional applications including divisions, reissues, substitutions, continuations, and extensions thereof; and I hereby authorize and request the Commissioner for Patents to issue all patents for said invention, or patent resulting therefrom, insofar as my interest is concerned, to said Assignee, as assignee of my entire right, title and interest. I declare that I have not executed and will not execute any agreement in conflict herewith.

I also hereby sell and assign to Assignee, its successors and assigns, my foreign rights to the invention disclosed in said application, in all countries of the world, including, but not limited to, the right to file applications and obtain patents under the terms of the International Convention for the Protection of Industrial Property, and of the European Patent Convention, and further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights.

I hereby further agree that I will communicate to said Assignee, or to its successors, assigns, and legal representatives, any facts known to me respecting said invention or the file history thereof, and at the expense of said Assignee, its legal representatives, successors, or assigns, will testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, reissue and substitute applications, make all lawful oaths, and generally do everything possible to aid said Assignee, its legal representatives, successors, and assigns, to obtain and enforce proper patent protection for said invention in all countries.

IN WITNESS WHEREOF, I hereunto set my hand and seal this day and year;

TITLE OF INVENTION	Battery Charging and Discharging Circuit and Terminal Devices			
SIGNATURE OF INVENTOR AND NAME	Shuang Han	Fan Zhang	3/4/2022 Songnan Yang	
DATE				
RESIDENCE	Foshan City, China	Foshan City, China	Frisco, TX, US	