

## PATENT ASSIGNMENT COVER SHEET

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SILERGY SEMICONDUCTOR TECHNOLOGY (HANGZHOU) LTD.	02/25/2020
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<b>DATE SIGNED:</b>	03/04/2020
<b>Total Attachments: 5</b>	
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ASSIGNMENT

SILERGY SEMICONDUCTOR TECHNOLOGY (HANGZHOU) LTD., having a place of business at 20F, Silergy Mansion, No. 6, Lianhai Street, Binjiang District, Hangzhou, Zhejiang Province, China 310051, ("Assignor") is owner of each of the U.S. Patents and each of the U.S. Patent Applications as identified in the Appendix attached hereto (the "Patent Assets").


NANJING SILERGY SEMICONDUCTOR (HONG KONG) TECHNOLOGY LTD., having a place of business at Unit 701, 7/F., Citicorp Centre, 18 Whitfield Road, Causeway Bay, Hong Kong 999077, ("Assignee") desires to acquire rights in and to the Patent Assets.

Therefore, for valuable consideration, the receipt of which is acknowledged, Assignor assigns to Assignee 100% of his right, title and interest in the Patent Assets, as well as any patents or patent applications that claim the benefit of any of the patents or patent applications in the Patent Assets, including such rights in any divisionals, continuations in whole or in part, or substitute applications, thereof to Assignee for the entire term of any patent applications, issued patents, and any reissues or extensions that may be granted, and for the entire terms of any patents, reissues or extensions that may issue or have already issued from any of the patents or patent applications in the Patent Assets. The right, title and interest conveyed in this Assignment is to be held and enjoyed by Assignee and Assignee's successors as fully and exclusively as it would have been held and enjoyed by Assignor had this assignment not been made.

Assignor authorizes the United States Patent and Trademark Office to issue any patents resulting from any such patent applications to Assignee according to the percentage interest indicated in this assignment. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignor had this assignment not been made.

Assignor further agrees to: (a) cooperate with Assignee in the protection of the patent rights and prosecution and protection of foreign counterparts; (b) execute, verify, acknowledge and deliver all such further papers, including patent applications and instruments of transfer; and (c) perform such other acts as Assignee lawfully may request to obtain or maintain the patents and any and all applications and registrations for the inventions as may be appropriate in any and all countries.

Date: Feb. 25, 2020



Wei Chen  
Chairman,  
Silergy Semiconductor Technology (Hangzhou) LTD.

Internal number	application number	Title	filing date	patent number
SILG2011P14US	13588298	A MAGNETIC COUPLING AND CONTACTLESS POWER TRANSMISSION APPARATUS	8/17/2012	9,054,546
SILG2014P58US	14737719	RESONANT CONTACTLESS POWER SUPPLY EQUIPMENT, ELECTRICAL TRANSMITTER AND CONTACTLESS POWER SUPPLY METHOD	6/12/2015	9,979,234
SILG2014P58C1US	15966204	RESONANT CONTACTLESS POWER SUPPLY EQUIPMENT, ELECTRICAL TRANSMITTER AND CONTACTLESS POWER SUPPLY METHOD	4/30/2018	
SILG2014P63US	14752392	RESONANCE-TYPE CONTACTLESS POWER SUPPLY AND POWER RECEIVER	6/26/2015	10,027,174
SILG2014P64US	14737817	POWER SUPPLY DEVICE, INTEGRATED CIRCUIT, ENERGY TRANSMITTER AND IMPEDANCE MATCHING METHOD	6/12/2015	10,103,578
SILG2014P64C1US	16100678	POWER SUPPLY DEVICE, INTEGRATED CIRCUIT, ENERGY TRANSMITTER AND IMPEDANCE MATCHING METHOD	8/10/2018	
SILG2014P120US	14940503	TUNING CIRCUIT, TUNING METHOD AND RESONANCE-TYPE CONTACTLESS POWER SUPPLY	11/13/2015	10,084,322
SILG2014P120C1US	16100931	TUNING CIRCUIT, TUNING METHOD AND RESONANCE-TYPE CONTACTLESS POWER SUPPLY	8/10/2018	
SILG2015P21US	15080809	POWER TRANSMITTER, RESONANCE-TYPE CONTACTLESS POWER SUPPLY AND CONTROL METHOD THEREFOR	3/25/2016	10,333,349
SILG2015P21C1US	16403906	POWER TRANSMITTER, RESONANCE-TYPE CONTACTLESS POWER SUPPLY AND CONTROL METHOD THEREFOR	5/6/2019	
SILG2015P22US	15080879	POWER TRANSMITTER, RESONANCE-TYPE CONTACTLESS POWER SUPPLY AND CONTROL METHOD THEREFOR	3/25/2016	10,084,347
SILG2015P22C1US	16103065	POWER TRANSMITTER, RESONANCE-TYPE CONTACTLESS POWER SUPPLY AND CONTROL METHOD THEREFOR	8/14/2018	10,396,600
SILG2015P23US	15080663	POWER RECEIVER, RESONANCE-TYPE CONTACTLESS POWER SUPPLY AND CONTROL METHOD THEREFOR	3/25/2016	9,899,880
SILG2015P56US	15211073	DRIVING CIRCUIT AND WIRELESS POWER TRANSMITTER INCLUDING THE SAME	9/29/2016	10,333,351
SILG2015P57US	15211023	DRIVING CIRCUIT AND WIRELESS POWER TRANSMITTER INCLUDING THE SAME	7/15/2016	10,396,597
SILG2015P57C1US	16505793	DRIVING CIRCUIT AND WIRELESS POWER TRANSMITTER INCLUDING THE SAME	7/9/2019	
SILG2016P17US	15477007	SYNCHRONOUS RECTIFIER CIRCUIT AND CONTROL METHOD THEREOF	4/1/2017	10,110,143

SILG2016P49US	15673584	POWER TRANSMITTING ANTENNA AND POWER TRANSMITTING DEVICE APPLYING THE SAME	8/10/2017	
SILG2016P50US	15673614	POWER RECEIVING ANTENNA AND WEARABLE ELECTRONIC DEVICE WITH THE SAME	8/10/2017	
SILG2016P52US	15674174	POWER RECEIVING ANTENNA AND WEARABLE ELECTRONIC DEVICE WITH THE SAME	8/10/2017	
SILG2019W05US	15013532	Wireless charging system, wireless power transmitter thereof, and wireless transmitting method therefor	2/2/2016	9,843,218
SILG2016P01US	15411051	DATA FORWARDING METHOD AND NODE DEVICE FOR MESH NETWORK	1/20/2017	10,462,044
SILG2016P01C1US	16576235	DATA FORWARDING METHOD AND NODE DEVICE FOR MESH NETWORK	9/19/2019	
SILG2016P39US	15644445	NODE EQUIPMENT, DATA PACKET FORWARDING METHOD AND MESH NETWORK SYSTEM THEREOF	7/7/2017	10,470,100
SILG2016P40US	15648341	NETWORK CONTROLLER, NODE DEVICE AND MESH NETWORK SYSTEM THEREOF	7/12/2017	10,356,824
SILG2016P42US	15657495	MULTIMODE RECEIVING DEVICE, MULTIMODE TRANSMITTING DEVICE AND MULTIMODE TRANSCIVING METHOD	7/24/2017	10,461,796
SILG2016P46US	15668891	METHOD AND DEVICE FOR GENERATING RECEIVED SIGNAL STRENGTH INDICATION	8/4/2017	
SILG2017P21US	15978307	APPARATUS AND METHOD FOR DETECTING OBJECT FEATURES	5/14/2018	
SILG2015P02US	14997699	DC IMPEDANCE DETECTION CIRCUIT AND METHOD FOR SPEAKER	1/23/2016	9,716,954
SILG2015P65US	15240341	CLASS-D AUDIO AMPLIFIER	8/18/2016	9,955,257
SILG2015P97US	15381666	METHODS FOR TRANSMITTING AUDIO AND VIDEO SIGNALS AND TRANSMISSION SYSTEM THEREOF	12/16/2016	10,129,498
SILG2015P98US	15375310	METHODS OF TRANSMITTING AND RECEIVING AUDIO-VIDEO DATA AND TRANSMISSION SYSTEM THEREOF	12/12/2016	9,967,517
SILG2016P64US	15800406	LOUDSPEAKER DIAPHRAGM STATE ESTIMATION METHOD AND LOUDSPEAKER DRIVING CIRCUIT USING THE SAME	11/1/2017	10,051,394
SILG2016P64C1US	16002068	LOUDSPEAKER DIAPHRAGM STATE ESTIMATION METHOD AND LOUDSPEAKER DRIVING CIRCUIT USING THE SAME	6/7/2018	10,356,541
SILG2016P65US	15800458	LOUDSPEAKER DRIVING APPARATUS AND LOUDSPEAKER DRIVING METHOD	11/1/2017	10,181,831
SILG2016F01US (SILG2015T01)	14617047	TIRE STATUS MONITORING-TRANSMISSION SYSTEM AND TRANSMISSION DEVICE THEREOF	2/9/2015	9,420,408
SILG2017P15US	15945870	METHOD FOR DETERMINING TIRE INSTALLATION LOCATION, TIRE PRESSURE MONITORING DEVICE AND SYSTEM	4/5/2018	10,457,103

SILG2017P41US	16113541	CODE WRITING DEVICE, TIRE PRESSURE MONITORING UNIT AND CONTROL METHOD	8/27/2018	
SILG2018P15US	16273326	STATE CONTROL METHOD, TIRE PRESSURE MONITORING DEVICE AND SYSTEM	2/12/2019	
SILG2018P95US	16589284	SENSING METHOD FOR WHEEL ROTATION, WHEEL LOCALIZATION METHOD, AND WHEEL LOCALIZATION SYSTEM	10/1/2019	
SILG2016P14US	15477024	PHOTOELECTRIC SENSOR, PHOTOELECTRIC MEASUREMENT METHOD AND HEART RATE MEASUREMENT EQUIPMENT	4/1/2017	10,349,846
SILG2016P19US	15477032	PHOTO DETECTOR AND ASSOCIATED INTEGRATED CIRCUIT	4/1/2017	10,121,815
SILG2016P20US	15477036	AMBIENT LIGHT FILTER, PHOTO SENSOR AND ASSOCIATED PHOTO DETECTOR	4/1/2017	
SILG2016P70US	15834332	OPTICAL SENSOR PACKAGE ASSEMBLY, MANUFACTURING METHOD THEREOF AND ELECTRONIC DEVICES	12/7/2017	
SILG2017P55US	16190311	OPTICAL DETECTION ASSEMBLY	11/14/2018	
SILG2018P02US	16183290	LIGHT GUIDE PLATE, OPTICAL STRUCTURE AND ASSOCIATED ELECTRONIC DEVICE	11/7/2018	
SILG2018P72US	16530087	SENSING SYSTEM, ELECTRONIC DEVICE AND SENSING METHOD FOR SENSING AMBIENT LIGHT	8/2/2019	
SILG2018P73US	16534032	LIGHT-SENSING APPARATUS AND ELECTRONIC DEVICE	8/7/2019	
SILG2014T01US (3748/0382PUS1)	13742116	INTEGRATED EMI FILTER CIRCUIT WITH ESD PROTECTION AND INCORPORATING CAPACITORS	1/15/2013	8,879,223
SILG2014T01C1US (3748/0382PUS1C1)	14486098	INTEGRATED EMI FILTER CIRCUIT WITH ESD PROTECTION AND INCORPORATING CAPACITORS	9/15/2014	9,246,328
SILG2014T02US (3748/0383PUS1)	13742126	INTEGRATED CIRCUIT COMMON-MODE FILTERS WITH ESD PROTECTION AND MANUFACTURING METHOD	1/15/2013	9,741,655
SILG2014T03US (3748/0384PUS1)	13752978	IC EMI FILTER WITH ESD PROTECTION INCORPORATING LC RESONANCE TANKS FOR REJECTION ENHANCEMENT	1/29/2013	8,879,230
SILG2014T03C1US (3748/0384PUS1C1)	14486167	IC EMI FILTER WITH ESD PROTECTION INCORPORATING LC RESONANCE TANKS FOR REJECTION ENHANCEMENT	9/15/2014	9,331,661
SILG2014T04US (3748/0415PUS1)	14158683	Low Capacitance Transient Voltage Suppressor	1/17/2014	9,819,176
SILG2015P27US	15088297	BI-DIRECTIONAL PUNCH-THROUGH SEMICONDUCTOR DEVICE AND MANUFACTURING METHOD THEREOF	4/1/2016	9,679,998

SILG2015P27C1US	15587518	BI-DIRECTIONAL PUNCH-THROUGH SEMICONDUCTOR DEVICE AND MANUFACTURING METHOD THEREOF	5/5/2017	9,837,516
SILG2015P72US	15268773	TRANSIENT VOLTAGE SUPPRESSOR AND MANUFACTURE METHOD	9/19/2016	9,911,730
SILG2016P32US	15606976	METHOD FOR MANUFACTURING ESD PROTECTION DEVICE	5/26/2017	9,929,137
SILG2016P44US	15670497	SEMICONDUCTOR STRUCTURE OF ESD PROTECTION DEVICE AND METHOD FOR MANUFACTURING THE SAME	8/7/2017	10,037,987
SILG2016P47US	15671816	ESD PROTECTION DEVICE AND METHOD FOR MANUFACTURING THE SAME	8/8/2017	10,128,227
SILG2016P59US	15728160	METHOD FOR MANUFACTURING ELECTRODE OF SEMICONDUCTOR DEVICE	10/9/2017	
SILG2016P60US	15730419	ESD PROTECTION DEVICE AND METHOD FOR MANUFACTURING THE SAME	10/11/2017	10,290,624
SILG2016P60C1US	16372984	ESD PROTECTION DEVICE AND METHOD FOR MANUFACTURING THE SAME	4/2/2019	
SILG2012P57US	14082984	BATTERY POWER MEASURING METHOD, MEASURING DEVICE AND BATTERY-POWERED EQUIPMENT	11/18/2013	9,645,200
SILG2015P68US	15230615	BATTERY BALANCE CIRCUIT AND BATTERY APPARATUS THEREOF	8/8/2016	10,348,100
SILG2015P74US	15262781	APPARATUS FOR BALANCING BATTERY POWER	9/12/2016	10,027,135
SILG2015P77US	15283551	METHOD OF BALANCING BATTERY POWER	10/3/2016	10,164,440
SILG2016P36US	15631118	METHOD AND DEVICE FOR DETECTING STATES OF BATTERY AND BATTERY PACK	6/23/2017	10,355,321
SILG2016P37US	15618329	METHOD AND APPARATUS FOR DETECTING STATE OF BATTERY	6/9/2017	