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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SHAOQING LIU	01/22/2019
JIANYING LIANG	01/22/2019
PENG LIN	01/22/2019
DAWEI CHEN	01/22/2019
WEIBIN WANG	01/22/2019
XIAOGUANG SUN	01/22/2019
CHUANYING LI	01/22/2019
YUNDONG HAN	01/22/2019
SHUANBAO YAO	01/22/2019
JINGYU ZHANG	01/22/2019

RECEIVING PARTY DATA

Name:	CRRC QINGDAO SIFANG CO., LTD.
Street Address:	NO. 88 JINHONGDONG ROAD,
Internal Address:	CHENGYANG DISTRICT
City:	QINGDAO
State/Country:	CHINA
Postal Code:	266111

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16329757

CORRESPONDENCE DATA

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PATENT 505480969 REEL: 049204 FRAME: 0991

ATTORNEY DOCKET NUMBER:	106178P001
NAME OF SUBMITTER:	LESTER J. VINCENT
SIGNATURE:	/LESTER J. VINCENT/
DATE SIGNED:	05/16/2019
Total Attachments: 3 source=106178P001_Assignment_signed#page1.tif source=106178P001_Assignment_signed#page2.tif	

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PATENT REEL: 049204 FRAME: 0992

ASSIGNMENT OF PATENT APPLICATION

Attorney Docket No.: 106178P001

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/we, the undersigned, Shaoqing LIU, Jianying LIANG, Peng LIN, Dawei CHEN, Weibin WANG, Xiaoguang SUN, Chuanying Li, Yundong HAN, Shuanbao YAO, Jingyu ZHANG

hereby sell, assign, and transfer to CRRC QINGDAO SIFANG CO., LTD.

a company of China

(Type of Assignee: e.g., corporation, company, partnership, university, etc.)

having a principal place of business at <u>No.88 Jinhongdong Road, Chengyang District, Qingdao, Shandong</u> 266111, P.R. China

("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all inventions or improvements that are disclosed in the application (provisional or non-provisional) for the United States patent which for the non-provisional application may have a declaration executed by the undersigned prior hereto or concurrently herewith and which application (provisional or non-provisional) is entitled

PHASE-CHANGE ENERGY STORAGE AIR DUCT AND AUTOMOBILE AIR CONDITIONING SYSTEM

said patent application also identified as follows (when known):

[I/we hereby authorize an attorney or agent for said Assignee to insert below the application number and filing date of said patent application when known.]

United States Patent Application Number	16/329,757	filed	February	<i>1</i> 28,	, 2019	

and in and to said application (provisional or non-provisional) and all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said inventions or improvements; and in and to all original patents, reissued patents, reexamination certificates, and extensions, that have been or shall be issued in the United States and all foreign countries on said inventions or improvements; and in and to all rights of priority resulting from the filing of said United States application;

agree that said Assignee may apply for and receive a patent or patents for said inventions or improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications on any and all said inventions or improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said inventions or improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or representatives in securing and maintaining proper patent protection for said inventions or improvements and for vesting title to said inventions or improvements, and all applications for patents and all patents on said inventions or improvements, in said Assignee, its successors, assigns, and legal representatives; and

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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, and that full right to convey the same as herein expressed is possessed by the undersigned.

Each Inventor: Please Sign and Date Below:

- · ·	
January 22, 20 19 Date	J- J- XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
January 22, 20 19 Date	Shaoging LIU Printed/Typed Name 深建英 Signature
January 22 , 20 19 Date	Jianying LIANG Printed/Typed Name Signature
Janu ary 22, 2019 Date	Peng LIN Printed/Typed Name Signature
January 2) , 20 19 Date	Printed/Typed Name Signature Weibin WANG Printed/Typed Name
January 22, 20 19	Signature Xiaoguang SUN
January 22, 20 19 Date	Printed/Typed Name 本传史 Signature Chuanying LI Printed/Typed Name

January 22, 20 19	Signature
	Yundong HAN Printed/Typed Name
<u> </u>	Signature
	Shuanbao YAO Printed/Typed Name
January 22 , 20 17 Date	<u> 张全义是</u> Signature
	Jingyu ZHANG

Assignment Document Return Address: WOMBLE BOND DICKINSON (US) LLP 1841 Page Mill Road, Suite 200 Palo Alto, CA 94304 (408) 341-3000