

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
JOSHUA DUANE LONGENECKER	11/19/2021
RECEIVING PARTY DATA	
Name:	HAIER US APPLIANCE SOLUTIONS, INC.
Street Address:	CORPORATION TRUST CENTER
Internal Address:	1209 ORANGE STREET
City:	WILMINGTON
State/Country:	DELAWARE
Postal Code:	19801
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	17539315
CORRESPONDENCE DATA	
Fax Number:	(864)233-7342
<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:	864-271-1592
Email:	usdocketing@dority-manning.com
Correspondent Name:	DORITY & MANNING, P.A. AND HAIER US APPL
Address Line 1:	POST OFFICE BOX 1449
Address Line 4:	GREENVILLE, SOUTH CAROLINA 29602-1449
ATTORNEY DOCKET NUMBER:	503179US01/HUSA-1584
NAME OF SUBMITTER:	WESLEY D. GREENWELL
SIGNATURE:	/Wesley D. Greenwell 67,591/
DATE SIGNED:	12/01/2021
Total Attachments: 2	
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ASSIGNMENT OF WORLDWIDE RIGHTS

WHEREAS, I, Joshua Duane Longenecker, residing in Louisville, Kentucky, as assignor, have made an invention entitled

**“METHOD OF OPERATING AN ELECTRONIC EXPANSION VALVE
IN AN AIR CONDITIONER UNIT”**

as described in a patent application, the specification of which:

- ☐ is attached hereto.
- ☒ was filed on December 1, 2021 as U.S. Application Serial No. 17/539,315.
- ☐ was filed on _____ as PCT Application Serial No. _____.

WHEREAS, Haier US Appliance Solutions, Inc., Corporation Trust Center, 1209 Orange Street, Wilmington, Delaware 19801, as assignee, is desirous of securing the entire right, title and interest in and to this invention in all countries throughout the world, and in and to the patent application on this invention and any Letters Patent to be issued upon this patent application;

NOW, THEREFORE, be it known that for good and valuable consideration the receipt of which from assignee is hereby acknowledged, I, as assignor, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, my entire right, title, and interest in and to this invention and this patent application, and all divisions, and continuations thereof, and all Letters Patent which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of such applications, and all applications for Letters Patent which may hereafter be filed for this invention in any country and all Letters Patent which may be granted on this invention in any country, and all extensions, renewals, and reissues thereof, and all rights to sue and recover for past, present, and future infringement thereof, and I hereby authorize and request the Commissioner for Patents of the United States and any official of any other country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment, and I hereby authorize the assignee, its successors and assigns, and the attorney(s)

of record in applications as described above to modify this Assignment, subsequent to its execution, to more specifically identify the applications as described above.

AND, I HEREBY covenant that I have the full right to convey the interest assigned by this Assignment, and I have not executed, and will not execute any agreement in conflict with this Assignment;

AND, I HEREBY further covenant and agree that I will, without further consideration, communicate with assignee, its successors and assigns, any facts known to me respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title of this invention in said assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any other country, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

IN WITNESS WHEREOF, Assignor has executed this document on the date indicated below.

/Joshua Duane Longenecker/
Joshua Duane Longenecker

11/19/2021
Date