

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
YEONHO KIM	08/30/2021
GEE YOUNG SHIN	08/30/2021
JAE YEON KIM	08/30/2021
JEAWAN KIM	08/30/2021
JAECHUN RYU	08/30/2021
INGUK HWANG	08/30/2021
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	HYUNDAI MOTOR COMPANY
<b>Street Address:</b>	12, HEOLLEUNG-RO, SEOCHO-GU
<b>City:</b>	SEOUL
<b>State/Country:</b>	KOREA, REPUBLIC OF
<b>Postal Code:</b>	06797
<b>Name:</b>	KIA CORPORATION
<b>Street Address:</b>	12, HEOLLEUNG-RO, SEOCHO-GU
<b>City:</b>	SEOUL
<b>State/Country:</b>	KOREA, REPUBLIC OF
<b>Postal Code:</b>	06797
<b>Name:</b>	HANON SYSTEMS
<b>Street Address:</b>	95, SINILSEO-RO, DAEDEOK-GU
<b>City:</b>	DAEJEON
<b>State/Country:</b>	KOREA, REPUBLIC OF
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	17514886
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(312)913-0002
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<b>Phone:</b>	312.913.0001

PATENT

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<b>ATTORNEY DOCKET NUMBER:</b>	21-1043-US
<b>NAME OF SUBMITTER:</b>	NICOLE E. REIFMAN
<b>SIGNATURE:</b>	/Nicole E. Reifman/
<b>DATE SIGNED:</b>	10/31/2021

**Total Attachments: 5**

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ASSIGNMENT

Case No.: 21-1043-US

Serial No.: \_\_\_\_\_

Inventor(s): Yeonho KIM  
Gee Young SHIN  
Jae Yeon KIM  
Jeawan KIM  
Jaechun RYU  
Inguk HWANG

Filing Date: \_\_\_\_\_

In consideration of One Dollar (\$1.00) and other good and valuable considerations in hand paid, the receipt and sufficiency whereof are hereby acknowledged, the undersigned hereby assign to:

**HYUNDAI MOTOR COMPANY**  
**12, HEOLLEUNG-RO, SEOCHO-GU, SEOUL 06797**  
**REPUBLIC OF KOREA**

**KIA CORPORATION**  
**12, HEOLLEUNG-RO, SEOCHO-GU, SEOUL 06797**  
**REPUBLIC OF KOREA**

**HANON SYSTEMS**  
**95, SINILSEO-RO, DAEDEOK-GU, DAEJEON**  
**REPUBLIC OF KOREA**

its successors and assigns, the entire right, title and interest in the invention or improvements of the undersigned disclosed in an application for Letters Patent of the United States, entitled:

**THERMAL MANAGEMENT SYSTEM FOR VEHICLE**

and identified as:

Case No. 21-1043-US

in the offices of McDONNELL BOEHNEN HULBERT & BERGHOFF LLP and in said application and any and all other applications, both United States and foreign, which the undersigned may file, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States and foreign countries, which may be obtained on any of said applications, and in any reissue or extension of such patents, and further assigns to said assignee the priority right provided by the International Convention.

The undersigned hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said assignee.

The undersigned hereby authorize and request the attorneys of record in said application to insert in this assignment the filing date and serial number of said application when officially known, and the date of execution of the application.

The undersigned warrant themselves to be the owners of the entire right, title and interest in said invention or improvements and to have the right to make this assignment, and further warrant that there are no outstanding prior assignments, licenses, or other encumbrances on the interest herein assigned.

For said considerations the undersigned hereby agree, upon the request and at the expense of said assignee, its successors and assigns, to execute any and all divisional, continuation and substitute applications for said invention or improvements, and any necessary oath, affidavit or declaration relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said application and any and all applications and other documents for Letters Patent in foreign countries on said invention or improvements, that said assignee, its successors or assigns may deem necessary or expedient, and for the said considerations the undersigned authorize said assignee to apply for patents for said invention or improvements in its own name in such countries where such procedure is proper and further agree, upon the request of said assignee, its successors and assigns, to cooperate to the best of the ability of the undersigned with said assignee, its successors and assigns, in any proceedings or transactions involving such applications or patents, including the preparation and execution of preliminary statements, giving and producing evidence, and performing any and all other acts necessary to obtain, maintain and enforce said Letters Patent, both United States and foreign, and vest all rights therein hereby conveyed in the assignee, its successors and assigns, whereby said Letters Patent will be held and enjoyed by the said assignee, its successors and assigns, to the full end of the term for which said

Letters Patent will be granted, as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment had not been made.

Date 30. Aug. 2021 Inventor Signature Yeonho Kim (SEAL)  
Yeonho KIM

This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. If neither, then it should be signed before at least two witnesses who also sign here:

Date \_\_\_\_\_ Witness \_\_\_\_\_

Date \_\_\_\_\_ Witness \_\_\_\_\_

Date Aug. 30. 2021 Inventor Signature Gee Yang Shin (SEAL)  
Gee Young SHIN

This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. If neither, then it should be signed before at least two witnesses who also sign here:

Date \_\_\_\_\_ Witness \_\_\_\_\_

Date \_\_\_\_\_ Witness \_\_\_\_\_

Jae Yeon KIM

Jeewan KIM

Date 30 Aug. 2021 Inventor Signature Jaecheun Ryu (SEAL)  
Jaecheun RYU

This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. If neither, then it should be signed before at least two witnesses who also sign here:

Date \_\_\_\_\_ Witness \_\_\_\_\_

Date \_\_\_\_\_ Witness \_\_\_\_\_

Date 30 Aug. 2021 Inventor Signature Ingyuk Hwang (SEAL)  
Ingyuk HWANG

This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. If neither, then it should be signed before at least two witnesses who also sign here:

Date \_\_\_\_\_ Witness \_\_\_\_\_

Date \_\_\_\_\_ Witness \_\_\_\_\_