PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Hee Sang Park	10/28/2010
Ho Seok Jeon	10/28/2010
Hyun Kim	10/28/2010
June Kyu Park	10/28/2010
Jung Hwan Yun	10/28/2010
Jun Mo Ku	10/28/2010
Sang Ha Kim	10/28/2010

RECEIVING PARTY DATA

Name:	Hyundai Motor Company	
Street Address:	231, Yangjae-Dong, Seocho-Ku	
City:	Seoul	
State/Country:	REPUBLIC OF KOREA	

Name:	Kia Motors Corporation	
Street Address:	231, Yangjae-Dong, Seocho-Ku	
City:	Seoul	
State/Country:	REPUBLIC OF KOREA	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12941376

CORRESPONDENCE DATA

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PATENT REEL: 025320 FRAME: 0129

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ATTORNEY DOCKET NUMBER: 87322(51529)	
NAME OF SUBMITTER:	Peter F. Corless
Total Attachments: 10 source=87322_Assignment#page1.tif source=87322_Assignment#page2.tif source=87322_Assignment#page3.tif source=87322_Assignment#page4.tif source=87322_Assignment#page5.tif source=87322_Assignment#page6.tif source=87322_Assignment#page7.tif source=87322_Assignment#page8.tif source=87322_Assignment#page9.tif source=87322_Assignment#page9.tif source=87322_Assignment#page10.tif	

PATENT REEL: 025320 FRAME: 0130

ASSIGNMENT BY INVENTORS

1

THIS ASSIGNMENT, made this 28 day of October, 2010, by PARK, Hee Sang; JEON, Ho Seok; KIM, Hyun; PARK, June Kyu; YUN, Jung Hwan; KU, Jun Mo; KIM, Sang Ha, (hereinafter referred to as Assignor), residing 102-1009, Hyundai Apt., Namyang-dong, Hwaseong-si, Gyeonggi-do 445-704, REPUBLIC OF KOREA: 605-1801, Samsantown, Samsan-dong, Bupyeong-gu, Incheon 403-090, REPUBLIC OF KOREA; Hyundai Kia Motors Namyang Institute, 772-1, Jangdeok-dong, Hwaseong-si, Gyeonggi-do 445-706, REPUBLIC OF KOREA; 101-601, Poranjae Apt., Moosongdong, Hwaseong-si, Gyeonggi-do 445-020, REPUBLIC OF KOREA; No. 304, Yongduktown 360-7 Yangjae 2-dong, Seocho-gu, Seoul137-898, REPUBLIC OF KOREA, Hyundai Kia Motors Namyang Institute, 772-1, Jangdeok-dong, Hwaseong-si, Gyeonggi-do 445-706, REPUBLIC OF KOREA, Hyundai Kia Motors Namyang Institute, 772-1, Jangdeok-dong, Hwaseong-si, Gyeonggi-do 445-706, REPUBLIC OF KOREA; respectively;

WHEREAS, Assignors have invented certain new and useful improvements in THERMAL MANAGEMENT SYSTEM, VEHICLES EMBODYING SAME AND METHODS RELATED THERETO, set forth in a Patent application for Letters Patent of the United States, filed herewith; and

WHEREAS, Hyundai Motor Company and Kia Motors Corporation. organized under and pursuant to the laws of Republic of Korea, respectively having their principal places of business at 231, Yangjae-Dong, Seocho-Ku, Seoul, REPUBLIC OF KOREA; and 231, Yangjae-Dong, Seocho-Ku, Seoul, REPUBLIC OF KOREA, respectively (hereinafter referred to as Assignees), are desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefore and thereon...

NOW. THEREFORE, in consideration of good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over. unto Assignee, its successors, legal representatives and assigns, the entire right, title

87322(51529)

and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefore and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and assignment not been made.

AND for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue,

2

87322(51529)

reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

AND Assignors hereby request the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

AND Assignors hereby grant the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document:

EDWARDS ANGELL PALMER & DODGE LLP

All practitioners at Customer Number 21874

AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

3

87322(51529)

October 28, 2010	Park Hee Say
Date	PARK, Hee Sang
Witness:	
October 28, 2010	GA
Date	SONG, J. Hyang

October 28, 2010	3
Date	JEON, Ho Seok
Witness: October 28,2010	ha-
Date	SONG, JT Hyang

October 28, 2010	Kim Hyun
Date	KIM, Hyun
Witness:	·
October 28,2010	m
Date	SONG. JT Hyang

October 28, 2010	Park, June kyu
Date	PARK, June Kyu
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October 28,2010	
Date	SONG, J- Hyang

October 28, 2010	Yun Jung Hwan
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October 28, 2010	h
Date	SONG, JT HUANS

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Date	KU, Jun Mo
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October 28.7010	SA
Date	Souls, J- Hyong

October 28, 2010	
Date	KIM, Sang Ha
Witness:	
October 28,2010	ha
Date	SONG, Jr Huang