

PATENT ASSIGNMENT

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SUBMISSION TYPE:

NEW ASSIGNMENT

NATURE OF CONVEYANCE:

ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Hee Sang Park	11/24/2011
Hyun Kim	11/24/2011
June Kyu Park	11/24/2011
Jun Mo Ku	11/24/2011
Moo Yong Kim	11/24/2011
Soon Jong Lee	11/24/2011
Tae Wan Kim	11/24/2011

RECEIVING PARTY DATA

Name:	Hyundai Motor Company
Street Address:	231, Yangjae-Dong, Seocho-ku
City:	Seoul
State/Country:	REPUBLIC OF KOREA
Postal Code:	137-938

Name:	Kia Motors Corporation
Street Address:	231, Yangjae-Dong, Seocho-ku
City:	Seoul
State/Country:	REPUBLIC OF KOREA
Postal Code:	137-938

Name:	Doowon Climate Control Co., Ltd.
Street Address:	16-1, Wonnam-ri, Eumbong-myeon
City:	Asan, Chungcheongnam-do
State/Country:	REPUBLIC OF KOREA

Name:	Halla Climate Control Corp
Street Address:	1689-1, Sinil-dong
Internal Address:	Daedeok-gu

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PATENT
REEL: 027357 FRAME: 0506

CH \$40.00 13315897

City:	Daejeon
State/Country:	REPUBLIC OF KOREA
Postal Code:	306-230

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13315897

CORRESPONDENCE DATA

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Address Line 1: P.O. Box 55874

Address Line 4: Boston, MASSACHUSETTS 02205

ATTORNEY DOCKET NUMBER:	89521(303527)
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NAME OF SUBMITTER:	Christine C. O'Day
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Total Attachments: 10

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ASSIGNMENT BY INVENTOR

THIS ASSIGNMENT, made this 24th day of November, 2011, by

PARK, Hee Sang, residing at **102-606, Gisan bestville, Sinnam-dong, Hwaseong-si, Gyeonggi-do 445-080, Republic of Korea** ;

KIM, Hyun, residing at **103-205, Hyundai Apt., Namyang-dong, Hwaseong-si, Gyeonggi-do 445-704, Republic of Korea** ;

PARK, June Kyu, residing at **101-601, Poranjae Apt., Musong-dong, Hwaseong-si, Gyeonggi-do 445-020, Republic of Korea** ;

KU, Jun Mo, residing at **BH plan TFT, Hyundai Kia Motors Namyang Institute, Jangdeok-dong, Hwaseong-si, Gyeonggi-do 445-706, Republic of Korea** ;

KIM, Moo Yong, residing at **121-301, Daehan Daewoo Apt., Maesanno 2-ga, Paldal-gu, Suwon-si, Gyeonggi-do 442-783, Republic of Korea** ;

LEE, Soon Jong, residing at **201-701, Jungang Heights 2 Cha, Gongsu-ri, Baebang-myeon, Asan-si, Chungcheongnam-do 336-852, Republic of Korea**;

KIM, Tae Wan, residing at **870-302, Gwanpyeong-dong, Yuseong-gu, Daejeon 305-509, Republic of Korea**, respectively (hereinafter referred to as Assignor(s));

WHEREAS, Assignor(s) has/have invented certain new and useful improvements in **SYSTEM AND METHOD FOR MANAGING WASTE HEAT OF ELECTRIC VEHICLE**, set forth in a Patent application for Letters Patent of the United States, filed herewith; and

WHEREAS, **Hyundai Motor Company, Kia Motors Corp., DOOWON CLIMATE CONTROL CO., LTD. and HALLA CLIMATE CONTROL CORP.**, a Corporation, organized under and pursuant to the laws of Republic of Korea and

Republic of Korea, respectively, having their principal places of business at **231, Yangjae-Dong, Seocho-Ku, Seoul, REPUBLIC OF KOREA; 231, Yangjae-Dong, Seocho-Ku, Seoul, REPUBLIC OF KOREA; 16-1, Wonnam-ri, Eumbong-myeon, Asan-si, Chungcheongnam-do 336-860, Republic of Korea and 1689-1, Sinil-dong, Daedeok-gu, Daejeon 306-230, 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 One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignor(s) has/have sold, assigned, transferred and set over, and by these presents does sell, assign, transfer and set over, unto Assignee(s), its/their successors, legal representatives and assigns, the entire right, title 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(s), for its/their own use and benefit and the use and benefit of its/their 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 Assignor(s), had this sale and assignment not been made.

AND for the same consideration, Assignor(s) hereby represent(s) and warrant(s) to Assignee(s), its/their 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(s) under law or that have already been transferred to Assignee(s), Assignor(s) is/are the sole and lawful owner 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 Assignor(s)

has/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, Assignor(s) hereby covenant(s) and agree(s) to and with Assignee(s), its/their 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(s), its/their successors, legal representatives and assigns, whenever counsel of Assignee(s), or counsel of its/their 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, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

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

AND Assignor(s) hereby grant(s) 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 WILDMAN PALMER LLP

All practitioners at Customer Number 21874

AND Assignor(s) acknowledge(s) an obligation of assignment of this invention to Assignee(s) at the time the invention was made.

November 24, 2011

Date

Park Hee Sang

PARK, Hee Sang

Witness:

Date

November 24, 2011

Date

Kim Hyun

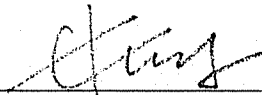
KIM, Hyun

Witness:

Date

November 24, 2011

Date



PARK, June Kyu

Witness:

Date

November 24, 2011

Date

KU Jun Mo

KU, Jun Mo

Witness:

Date

November 24, 2011

Date

KIM MOO YONG
KIM, Moo Yong

Witness:

Date

November 24, 2011

Date

LEE Soon Jong

LEE, Soon Jong

Witness:

Date

November 24, 2011

Date

Kim Tae Wan

KIM, Tae Wan

Witness:

Date
