506060636 05/14/2020

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HYUN WOO SHIN	03/27/2019

RECEIVING PARTY DATA

Name:	HYUNDAI MOTOR COMPANY
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State/Country:	KOREA, REPUBLIC OF
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Name:	KIA MOTORS CORPORATION
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City:	SEOUL
State/Country:	KOREA, REPUBLIC OF
Postal Code:	06797

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16397798

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	15438-877
NAME OF SUBMITTER:	ILHWAN YOO
SIGNATURE:	/Ilhwan Yoo/
DATE SIGNED:	05/14/2020

PATENT 506060636 REEL: 052666 FRAME: 0568

Total Attachments: 2

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PATENT REEL: 052666 FRAME: 0569

Case No.<u>15438-877</u> Client Ref. No. HMC-18277/US

COMBINED ASSIGNMENT & DECLARATION

ASSIGNMENT

WHEREAS, <u>SHIN</u>, <u>Hyun Woo</u>, hereinafter called the "Assignors", have made the invention described in the United States patent application entitled <u>METHOD AND SYSTEM FOR CALCULATING DISTANCE TO EMPTY OF ECO-FRIENDLY VEHICLE</u>, executed by Assignors on the same date as, or on a date prior to, this Assignment;

WHEREAS, Hyundai Motor Company, a corporation organized and existing under the laws of Korea, having a place of business at 12, Heolleung-ro, Seocho-gu, Seoul 06797, Republic of Korea, and Kia Motors Corporation, having a place of business at 12, Heolleung-ro, Seocho-gu, Seoul 06797, Republic of Korea, hereinafter called the "Assignees", desires to acquire the entire right, title and interest in and to the invention and the patent application identified above, and all patents which may be obtained for said invention, as set forth below;

NOW, THEREFORE, be it known that, for good and valuable consideration the receipt of which by the Assignors from Assignees is hereby acknowledged, the Assignors have sold, assigned and transferred, and by these presents does sell, assign and transfer to the Assignees, the entire right, title and interest for the United States in and to the invention and the patent application identified above, and any patents that may issue for said invention in the United States; together with the entire right, title and interest in and to said invention and all patent applications and patents issuing therefrom in all countries foreign to the United States, including the full right to claim for any such application all benefits and priority rights under any applicable convention; together with the entire right, title and interest in and to all continuations, divisions, renewals and extensions of any of the patent applications and patents defined above; together with the right to recover all damages, including, but not limited to, a reasonable royalty, by reason of past, present, or future infringement or any other violation of patent or patent application rights; to have and to hold for the sole and exclusive use and benefit of the Assignees, its successors and assigns, to the full end of the term or terms for all such patents.

The Assignors hereby covenant and agree, for both the Assignors and the Assignors' legal representatives, that the Assignors will assist the Assignees in the prosecution of the patent application identified above; in the making and prosecution of any other patent applications that the Assignees may elect to make covering the invention identified above; in vesting in the Assignees like exclusive title in and to all such other patent applications and patents; and that the Assignors will execute and deliver to the Assignees any and all additional papers which may be requested by the Assignee to carry out the terms of this Assignment.

PATENT REEL: 052666 FRAME: 0570 The Commissioner of Patents and Trademarks is hereby authorized and requested to issue patents to the Assignee in accordance with the terms of this Assignment.

IN TESTIMONY WHEREOF, the Assignors have executed this agreement.

DECLARATION

As the below-named inventor, I hereby declare that:

This Declaration is directed to the attached application. I have reviewed and understand the contents of the above-identified patent application including the claims, and I believe that I am the original inventor or an original joint inventor of a claimed invention in the above-identified patent application. The above-identified patent application was made or authorized to be made by me.

I acknowledge my duty to disclose to the United States Patent and Trademark Office all information that I know to be material to the patentability of this application as defined in 37 C.F.R. § 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby acknowledge that any willful false statement made in this Declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

Further, I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. § 1001 and that such willful false statements may jeopardize the validity of the application and any patent issued thereon.

DATE: MAR 27, 20/9 SIGNATURE: SHIN, Hyun Woo SHIN, Hyun Woo

PATENT