503099604 12/13/2014

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3146211

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

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### **PROPERTY NUMBERS Total: 1**

Property Type	Number	
Application Number:	14569641	

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PATENT

REEL: 034501 FRAME: 0685

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DATE SIGNED:	12/13/2014

**Total Attachments: 2** 

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PATENT REEL: 034501 FRAME: 0686

#### ATTORNEY DOCKET NO.: 96936(51529)

### **ASSIGNMENT**

Title	ω£	Invention
11116	OT	invention

# SYSTEM AND METHOD FOR COMPUTING MOTOR SPEED AND ROTOR POSITION USING HALL SENSOR

The undersigned ("Assignor") is a	n inventor, a	an applicant.	and/or an	owner of:
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[X]	The application attached hereto.	
[]	United States Application No.	filed on
	Application No(s) and/or Patent No(s	

The following party ("Assignee") is 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.

Name of Assignee	Address
Hyundai Motor Company	12, Heolleung-ro, Seocho-gu, Seoul, 137-938, Republic of Korea
Kia Motors Corporation	12, Heolleung-ro, Seocho-gu, Seoul, 137-938, Republic of Korea

For good and sufficient consideration, the receipt of which is hereby acknowledged, Assignor has sold, assigned, transferred and set over, and by these presents does sell, assign, transfer and set over, unto Assignee, its 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 therefor 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 Assignor, had this sale and assignment not been made.

For the same consideration, Assignor hereby covenants and agrees to and with Assignee, its successors, legal representatives and assigns, that Assignor 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, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

For the same consideration, Assignor hereby represents and warrants 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, Assignor is 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 has good and full right and lawful authority to sell and convey the same in the manner herein set forth.

Assignor hereby requests 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.

Assignor hereby grants 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.

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

Name of Assignor(s)	Signature	Date
LEE, Dong Hun	Lee, Dong Hyn	December 1, 2014
KANG, Min Su	KANG, Minsu	December 1, 2014
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