

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4669818

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
SOON CHEOL HWANG	10/24/2017
JEE HYUN JUNG	10/24/2017
IN CHUL HWANG	10/24/2017
<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 MOTORS 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>	LS AUTOMOTIVE CORP
<b>Street Address:</b>	31, SANDAN-RO, DANWON-GU
<b>City:</b>	ANSAN-SI, GYEONGGI-DO
<b>State/Country:</b>	KOREA, REPUBLIC OF
<b>Postal Code:</b>	15611
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15801230
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(415)442-1001
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	4154421000
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<b>Correspondent Name:</b>	MORGAN, LEWIS & BOCKIUS LLP (SF)
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<b>PATENT</b>	

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<b>ATTORNEY DOCKET NUMBER:</b>	100607-5235-US
<b>NAME OF SUBMITTER:</b>	SHEILA R. GLOSS
<b>SIGNATURE:</b>	/Sheila R. Gloss/
<b>DATE SIGNED:</b>	11/01/2017
<b>Total Attachments: 3</b> source=100607-5235-US_Assign_001#page1.tif source=100607-5235-US_Assign_001#page2.tif source=100607-5235-US_Assign_001#page3.tif	

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**ASSIGNMENT  
(Joint Inventors)**

WHEREAS, the undersigned, (1) **HWANG, Soon Cheol** resident of 501, 259, Suji-ro, Suji-gu, Yongin-si, Gyeonggi-do 16818, Republic of Korea, (2) **JUNG, Jee Hyun** resident of 1902, Shinan Metro Khan, 239, Pyeongchon-daero, Dongan-gu, Anyang-si, Gyeonggi-do 14047, Republic of Korea, (3) **HWANG, In Chul** resident of 801-1304, Hyundai Sungwoo Apt., 52, Pungdeokcheon-ro, Suji-gu, Yongin-si, Gyeonggi-do 16843, Republic of Korea, have invented certain new and useful improvements in

**APPARATUS AND METHOD FOR DIAGNOSING FAILURE OF ULTRASONIC SENSOR**

and executed therefore an application for Letters Patent of the United States and

☒ having an oath or declaration executed on even date herewith.  
☐ bearing U.S. Patent Application No. \_\_\_\_\_ and filed on \_\_\_\_\_.

WHEREAS, **Hyundai Motor Company**, a corporation of the Republic of Korea, having a place of business at **12, Heolleung-ro, Seocho-gu, Seoul 06797, Republic of Korea**, **Kia Motors Corporation**, a corporation of the Republic of Korea, having a place of business at **12, Heolleung-ro, Seocho-gu, Seoul 06797, Republic of Korea** and **LS Automotive Corp**, a corporation of the Republic of Korea, having a place of business at **31, Sandan-ro, Danwon-gu, Ansan-si, Gyeonggi-do 15611, Republic of Korea** (hereinafter termed "Assignee(s)"), is desirous of acquiring the entire right, title and interest in and to said application and the invention disclosed therein, and in and to all embodiments of the invention, heretofore conceived, made or discovered by said Inventor (all collectively hereinafter termed "said invention"), and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter termed "patents") thereon granted in the United States and foreign countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Inventor to have been received in full from said Assignee:

1. Said Inventor do hereby sell, assign, transfer and convey unto said Assignee, the entire right, title and interest (a) in and to said application and said invention; (b) in and to all rights to apply for foreign patents on said invention pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all applications filed and any and all patents granted on said invention in the United States or any foreign country, including each and every application filed and each and every patent granted on any application which is a division, substitution, or continuation of any of said applications; and (d) in and to each and every reissue or extensions of any of said patents.

2. Said Inventor do hereby jointly and severally covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right title and interest herein conveyed in the United States and foreign countries. Such cooperation by said Inventor shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right,

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title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said invention; (d) for filing and prosecuting applications for reissuance of any said patents; (e) for interference or other priority proceedings involving said invention; and (f) for legal proceedings involving said invention and any applications therefor and any patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventor in providing such cooperation shall be paid for by said Assignee.

3. The terms and covenants of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventor, their respective heirs, legal representatives and assigns.

4. Said Inventor do hereby jointly and severally warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, the said Inventor has executed and delivered this instrument to said Assignee as follows:

(1) HWANG, Soon Cheol

Date: 2017.10.24



State of \_\_\_\_\_ )  
County of \_\_\_\_\_ ) ss.

On \_\_\_\_\_, before me, \_\_\_\_\_, Notary Public, personally appeared \_\_\_\_\_, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity(ies), and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument. I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Notary Public

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(2) JUNG, Jee Hyun

Date: 2017. 10. 24

State of \_\_\_\_\_ }  
County of S. Korea } ss.

On \_\_\_\_\_, before me, \_\_\_\_\_, Notary Public, personally appeared \_\_\_\_\_, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity(ies), and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument. I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Notary Public

(3) HWANG, In Chul

Date: 2017. 10. 24

State of \_\_\_\_\_ }  
County of S. Korea } ss.

On \_\_\_\_\_, before me, \_\_\_\_\_, Notary Public, personally appeared \_\_\_\_\_, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity(ies), and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument. I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Notary Public