

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	KYOUNGCHAN HAN	11/16/2018
RECEIVING PARTY DATA		
Name:	HYUNDAI MOTOR COMPANY	
Street Address:	12, HEOLLEUNG-RO, SEOCHO-GU	
City:	SEOUL	
State/Country:	KOREA, REPUBLIC OF	
Postal Code:	06797	
Name:	KIA MOTORS CORPORATION	
Street Address:	12, HEOLLEUNG-RO, SEOCHO-GU	
City:	SEOUL	
State/Country:	KOREA, REPUBLIC OF	
Postal Code:	06797	
PROPERTY NUMBERS Total: 1		
Property Type	Number	
Application Number:	16198003	
CORRESPONDENCE DATA		
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<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>		
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ATTORNEY DOCKET NUMBER:	048299-975001US	
NAME OF SUBMITTER:	PETER F. CORLESS	
SIGNATURE:	/Peter F. Corless/	
DATE SIGNED:	12/19/2018	
Total Attachments: 3		

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**COMBINED ASSIGNMENT & DECLARATION
FOR UTILITY OR DESIGN PATENT APPLICATION**

ASSIGNMENT

THIS ASSIGNMENT, made this _____ day of _____, 2018, by,
(1) Kyoungchan HAN (hereinafter referred to as Assignor), residing at #644-1204, 34,
Sanboncheon-ro, Gunpo-si, Gyeonggi-do, Korea

WHERE AS, Assignor has invented certain new and useful improvements in METHOD
OF PREDICTING AND CONTROLLING NOx GENERATION AMOUNT, set forth in a Patent
application for Letters Patent of the United States, already filed on _____ as U.S.
Application No. _____; and

WHERE AS, HYUNDAI MOTOR COMPANY, a corporation organized under and
pursuant to the laws of the Republic of Korea, having its principal place of business at 12,
Heolleung-ro, Seocho-gu, Seoul, Republic of Korea; KIA MOTORS CORPORATION, a
corporation organized under and pursuant to the laws of the Republic of Korea, having its principal
place of business at 12, Heolleung-ro, Seocho-gu, Seoul, Republic of Korea (hereinafter referred to
as 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.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other 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
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 Assignor, had this sale and assignment not been made.

AND 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.

AND 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.

AND Assignor hereby requests the Commissioner for Patents 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 Assignor acknowledges an obligation of assignment of this invention to Assignee at the time the invention was made.

DECLARATION

As a below named inventor, I hereby declare that:

This declaration is directed to the patent application entitled:

**METHOD OF PREDICTING AND CONTROLLING NO_x GENERATION
AMOUNT**

the specification of which was filed on _____ as Application No. _____

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I have reviewed and understand the contents of the above-identified application.

I am aware of the duty to disclose to the Office all information known to me to be material to patentability as defined in 37 C.F.R. 1.56.

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.

In the event that the filing date and/or Application No. are not entered above at the time I execute this document, and if such information is deemed necessary, I hereby authorize and request the attorneys/agent(s) at Mintz Levin Cohn Ferris Glovsky and Popeo, P.C., One Financial Center, Boston, Massachusetts 02111, to insert the filing date and/ or Application No. of said application into this document.

Date: 10.17.2018



Kyoungchan HAN