507452873 08/23/2022

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ANTOWAN ZYADA	08/15/2022
KYOUNG PYO HA	08/23/2022
SHENGRONG ZHU	08/08/2022
PHILIP ZOLDAK	08/08/2022
JEFFREY HOLLOWELL	08/08/2022
MARK SHIRLEY	08/15/2022
NICHOLAS FANTIN	08/08/2022

RECEIVING PARTY DATA

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Postal Code:	06797
Name:	KIA CORPORATION
Name: Street Address:	KIA CORPORATION 12, HEOLLEUNG-RO, SEOCHO-GU
Street Address:	12, HEOLLEUNG-RO, SEOCHO-GU

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17569068

CORRESPONDENCE DATA

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REEL: 060871 FRAME: 0071

PATENT

507452873

ATTORNEY DOCKET NUMBER:	347848.00038
NAME OF SUBMITTER:	LYNN E. MARCUS
SIGNATURE:	/Lynn E. Marcus/
DATE SIGNED:	08/23/2022
Total Attachments: 3	
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source=Assignment#page2.tif	
source=Assignment#page3.tif	

PATENT REEL: 060871 FRAME: 0072

Attorney Docket No. 347848,00038

ASSIGNMENT OF INVENTION

In consideration of the payment by ASSIGNEE to ASSIGNOR(S) of the sum of One Dollar (\$1.00) and for other good and valuable consideration, the receipt of which is hereby acknowledged, by this document

ASSIGNOR(S):

Name	Address
Antowan Zyada	19416 Mayfield Avenue, Apt. 203, Livonia, Michigan 48152
Kyoung Pyo Ha	#601-1803, 248, Jeongjail-ro, Bundang-gu, Seongnam, Gyeonggi-do, REPUBLIC OF KOREA
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Jeffrey Hollowell	3273 Rio Vista Street, Commerce, Michigan 4382
Mark Shirley	5301 North Gibbs Road, Albion, Michigan 49224
Nicholas Fantin	1840 Covington Drive, Ann Arbor, Michigan 48103

assigns and transfers to:

ASSIGNEE:

Name	Address
Hyundai Motor Company	12, Heolleung-ro, Seocho-gu, Seoul, REPUBLIC OF KOREA 06797
Kia Corporation	12, Heolleung-ro, Seocho-gu, Seoul, REPUBLIC OF KOREA 06797

the entire right, title and interest in and to the invention entitled:

COMBUSTION ENGINE MODE OPTIMIZATION

and which is found in (check one or more):

	the U.S. patent application filed with this assignment document
X	U.S. patent application no. 17/569,068, filed January 5, 2022
	International patent application no., filed
	U.S. patent no., issued

and in and to

 all patent applications filed and letters patent obtained for the invention, whether foreign and domestic, and all continuations, continuations-in-part, divisions,

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- renewals, reissues, re-examinations, or substitutes of any such patent or patent application; and any patents and patent applications to which any such patent or patent application claims priority;
- all rights to any legal equivalent thereof in a foreign country such as patents of addition, utility models, patents of importation, revalidation patents and inventor certificates:
- the right to apply for patents and inventor certificates relating to the invention, and the right to claim priority to all applications throughout the world in respect of the invention; and
- the right to sue and recover any and all damages and profits, and any and all other remedies, for past, present, or future infringements of patents directed to the invention.

ASSIGNOR(S) authorizes ASSIGNEE or its legal representative to insert in this instrument the filing date, serial number, and any other information that may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office or any other domestic or foreign government entity for the recordation of this document.

ASSIGNOR(S) warrants and agrees that:

- no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;
- upon request, ASSIGNOR(S) will promptly provide ASSIGNEE with all pertinent facts and documents relating to the invention as may be known and accessible to ASSIGNOR(S);
- ASSIGNOR(S) will, at ASSIGNEE'S expense, testify as to the same in any interference, litigation or proceeding related to the invention;
- ASSIGNOR(S) will promptly execute and deliver to ASSIGNEE, its assigns or its
 legal representatives, without further or additional consideration, any and all papers,
 instruments or affidavits required, render all necessary assistance, and do such
 additional acts as ASSIGNEE or its successors or assigns may deem necessary or
 desirable, to apply for, obtain, maintain, issue and enforce any resulting patents or
 patent applications; and
- ASSIGNOR(S) hereby waive all rights to challenge validity of said invention, and any and all patents covering the invention that may issue in the future in the United States.

ASSIGNOR(S) hereby authorize and request the Commissioner of Patents and Trademarks and any foreign counterpart to issue any and all letters patent for the invention to ASSIGNEE, for ASSIGNEE'S sole use and benefit, and for the use and benefit of ASSIGNEE'S successors and assigns, to the full end of the term for which such patent may be granted.

ASSIGNOR(S) hereby irrevocably appoint ASSIGNEE, with full power of substitution, as ASSIGNOR(S)' true and lawful attorney-in-fact in ASSIGNOR(S)' name, place and stead to make, execute, assign, record and file, on ASSIGNOR(S)' behalf and for the benefit of ASSIGNEE, such documents confirming Assignee's ownership-rights that may be necessary or useful in ASSIGNEE's discretion. This <u>Power of Attorney</u> includes, but is not limited to, applying for, securing, maintaining, reissuing extending, or defending ASSIGNEE's

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worldwide rights in the invention in any country worldwide, so as to secure to ASSIGNEE the full benefits of the invention and otherwise to carry into full force and effect the text and the intent of this assignment. This grant of authority is a special power of attorney coupled with an interest, is irrevocable and shall survive the incapacity of ASSIGNOR, may be exercised by any representative of ASSIGNEE on behalf of ASSIGNOR(S) by a facsimile or electronic signature, and shall survive any relationship between Assignor and ASSIGNEE.

ASSIGNOR(S) agree that this document shall bind and inure to the benefit of the heirs, assigns and legal representatives of both ASSIGNOR(S) and ASSIGNEE.

			DocuSigned by:
Date: _	08/15/22	Signature:	Antowan Eyada
			Antowan Zyada
Date: _	08/23/22	Signature: _	CocuSigned by: 83F50410A650406 Kyoung Pyo Ha
Date: _	08/08/22	Signature: _	Shengrong Zhu Shengrong Zhu
Date: _	08/08/22	Signature: _	Philip Zoldak Philip Zoldak
Date: _	08/08/22	Signature: _	Jeffrey Hollowell Jeffrey Hollowell Jeffrey Hollowell
Date: _	08/15/22	Signature: _	Mark Shirley Mark Shirley
Date: _	08/08/22	Signature: _	Docusigned by: Metholas Fantin Nicholas Fantin

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