

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
DONG-HWI LIM	11/27/2017
WOO-SEOK SHIM	11/27/2017
HYUN-DOO HWANG	11/27/2017
RECEIVING PARTY DATA	
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15836883
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DATE SIGNED:	05/04/2018
Total Attachments: 2	
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ASSIGNMENT AND AGREEMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I (we), **Dong-Hwi, LIM, Woo-Seok SHIM, Hyun-Doo, HWANG** have sold, assigned and transferred, and do hereby sell, assign and transfer, unto **HYUNDAI AUTRON CO., LTD.**, a corporation of the Republic of Korea, having its principal office in Mtek IT Tower 344, Pangyo-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, 13493, Republic of Korea, and its successors, assigns, and legal representatives, the entire right, title and interest for the United States of America in and to certain inventions relating to improvements in **APPARATUS AND METHOD FOR CONTROLLING PULSE WIDTH MODULATION SWITCHING FREQUENCY** (Attorney Docket No. _____):

Filing Date: 2017-12-10 **Application No.:** 15/836,883

described, illustrated and claimed in an application for Letters Patent of the United States of America executed by us on the dates indicated by our signatures below, together with the entire right, title and interest in and to the application, and in and to Letters Patent which may be issued upon the application, and upon any division, extension, continuation or reissue thereof.

We hereby also sell, assign and transfer unto **HYUNDAI AUTRON CO., LTD.**, the entire right, title and interest in and to the invention and in and to applications for Letters Patent therefore in all countries foreign to the United States of America, including all rights under any and all international conventions and treaties in respect of the invention and the applications for Letters Patent in foreign countries, and we further authorize **HYUNDAI AUTRON CO., LTD.**, to apply for Letters Patent in foreign countries directly in its own name, and to claim priority of the filing date of the application for Letters Patent of the United States of America under the provisions of any and all international conventions and treaties.

We hereby authorize and request the Commissioner of Patents of the United States of America to issue Letters Patent upon the aforesaid application, division, extension, continuation or reissue, to **HYUNDAI AUTRON CO., LTD.**, for the sole use and benefit of **HYUNDAI AUTRON CO., LTD.**, its successors, assigns and legal representatives, to the full end of the term for which Letters Patent may be granted, the same as they would have been held and enjoyed by us had this assignment not been made, and we hereby authorize and request the

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equivalent authorities in foreign countries to issue the patents of their respective countries to HYUNDAI AUTRON CO., LTD.

We agree that, when requested, we will, without charge to HYUNDAI AUTRON CO., LTD., but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining patents for the inventions in any and all countries and for vesting title thereto in HYUNDAI AUTRON CO., LTD., its successors, assigns and legal representatives or nominees.

We covenant with HYUNDAI AUTRON CO., LTD., its successors, assigns and legal representatives, that the interest and property hereby conveyed is free from all prior assignment, grant, mortgage, license or other encumbrance.

We further authorize and direct the attorneys of record to insert the serial number and filing date of said application now identified by the attorney docket number and title set forth above as soon as the same shall have been made known to them by the United States Patent and Trademark Office.

Signature of 1st Inventor: 김동희 Date: 2019/11/27
Signature

Name of 1st Inventor: Dong-Hwi, LIM

Signature of 2nd Inventor: 심우석 Date: 2019.11.27
Signature

Name of 2nd Inventor: Woo-Seok SHIM

Signature of 3rd Inventor: 황두우 Date: 2018.11.27
Signature

Name of 3rd Inventor: Hyun-Doo, HWANG