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| PATENT ASSIGNMENT COVER SHEET |
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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| BERNARD A. RAAD | 11/01/2017 |
| RECEIVING PARTY DATA | |
| Name: | ASTRONICS ADVANCED ELECTRONIC SYSTEMS CORP. |
| Street Address: | 12950 WILLOWS ROAD NE |
| City: | KIRKLAND |
| State/Country: | WASHINGTON |
| Postal Code: | 98034 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 15650032 |
| 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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| Correspondent Name: | GREGORY S. ROSENBLATT |
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| Address Line 2: | ONE CENTURY TOWER, P.O. BOX 1832 |
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| ATTORNEY DOCKET NUMBER: | 103984-200 |
| NAME OF SUBMITTER: | GREGORY S. ROSENBLATT |
| SIGNATURE: | /Gregory S Rosenblatt/ |
| DATE SIGNED: | 11/03/2017 |
| Total Attachments: 2 | |
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| source=103984_200_Assignment#page2.tif | |

ASSIGNMENT

WHEREAS, I, Bernard A. Raad, residing at 1220 13th Street, West Linn, OR 97068, have invented certain new and useful improvements in Integrated Brushless Starter Generator for which I:

have filed an application for Letters Patent of the United States on July 14, 2017 under Serial No. 15/650,032; and

WHEREAS, Astronics Advanced Electronic Systems Corp. organized under the laws of Washington, is desirous of obtaining the entire right, title, and interest in, to and under the said improvements and the said application;

NOW, THEREFORE, in consideration of good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto Astronics Advanced Electronic Systems Corp., its successors, legal representatives, and assigns the entire right, title, and interest in, to and under the improvements, and the application and all divisions, renewals, and continuations thereof, and all Letters Patents of the United States which may be granted thereon and all reissues and extensions thereof, and all applications for Letters Patents which may hereafter be filed for the improvements in any country or countries foreign to the United States, and all Letters Patents which may be granted for the improvements in any country or countries foreign to the United States and all extensions, renewals, and reissues thereof; and we hereby authorize and request the Commissioner of Patents of the United States and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvement to Astronics Advanced Electronic Systems Corp., its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to Astronics Advanced Electronic Systems Corp., its successors, legal representatives and assigns, any facts

known to us respecting the improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths, and generally do everything possible to aid Astronics Advanced Electronic Systems Corp. its successors, legal representatives and assigns to obtain and enforce proper patent protection for the improvements in all countries.

AND WE HEREBY further assign and transfer to Astronics Advanced Electronic Systems Corp. all priority rights derived from such application therefore by virtue of the International Convention for the Protection of Industrial Property for any and all member countries of the aforesaid International convention and we do hereby assign and transfer to Astronics Advanced Electronic Systems Corp. the sole right to file further applications for patents under the patent laws of any country of the world based on any improvements disclosed in said application as fully and entirely as the same would have been held by us had this assignment not been made.

AND WE AUTHORIZE the law firm of Wiggin and Dana LLP to add to this Assignment the filing date and serial number of the patent application prior to recordation of this Assignment.

IN TESTIMONY WHEREOF, we hereunto set our hand the day and year set opposite our respective signature.

Date: 11/1/2017



Bernard A. Raad