

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| JAMES R. TROXEL | 09/07/2017 |
| RECEIVING PARTY DATA | |
| Name: | AVIATION COMMUNICATION & SURVEILLANCE SYSTEMS LLC |
| Street Address: | 19810 N. 7TH AVENUE |
| City: | PHOENIX |
| State/Country: | ARIZONA |
| Postal Code: | 85027 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 15412438 |
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| NAME OF SUBMITTER: | DAVID S. HERNANDEZ |
| SIGNATURE: | /David S. Hernandez/ |
| DATE SIGNED: | 09/08/2017 |
| Total Attachments: 1 | |
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ASSIGNMENT

WHEREAS I, the below-named inventor (hereinafter "Assignor"), have made an invention entitled: "SYSTEMS AND METHODS FOR PROVIDING AN INTEGRATED TCAS, TRANSPONDER, AND DME SYSTEM USING A DEDICATED DME ANTENNA" for which I executed an application for United States Letters Patent filed on January 23, 2017 (Application No. 15/412,438, hereinafter "'438 Application"); and

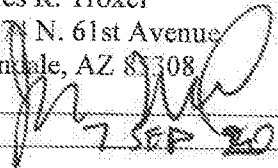
WHEREAS, Aviation Communication & Surveillance Systems LLC, a LIMITED LIABILITY COMPANY of Delaware, whose address is 19810 N. 7th Avenue, Phoenix, AZ 85027-4400, (herein "Assignee"), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to the '438 Application for this invention, as well as all applications related to the '438 Application, now or hereafter filed anywhere in the world, and all Letters Patents granted from any of the foregoing applications;

NOW THEREFORE, be it known that for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I, as Assignor, assign and transfer unto the Assignee, its lawful successors and assigns, my entire right, title, and interest in and to this invention, the '438 Application, and all divisions, continuations, and continuations-in-part thereof, and all Letters Patent of the United States which may be granted thereon, and all reexamination certificates and reissues thereof, as well as all rights to claim priority on the basis of the '438 Application, and all applications for Letters Patent which may now or hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof in any country; and I hereby authorize and request the United States Patent and Trademark Office and any official of any foreign country whose duty it is to issue Letters Patent on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I HEREBY covenant that I have the full right to convey the interest assigned by this Assignment, and I have not executed and will not execute any agreement in conflict with this Assignment;

AND, I HEREBY further covenant and agree that I will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to me respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect title to this invention for said Assignee, its successors or assigns, execute all divisional, continuation, continuation-in-part and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

IN TESTIMONY WHEREOF, I have hereunto set my hand.

Name: James R. Troxel
 Address: 2167 N. 61st Avenue
 Glendale, AZ 85308
 Signature: 
 Date: 7 SEP 2017