PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JEFFREY SCOTT NOEL	11/27/2018
ANDREW HENRY GIACOBE	11/27/2018

RECEIVING PARTY DATA

Name:	THE BOEING COMPANY	
Street Address:	100 NORTH RIVERSIDE PLAZA	
City:	CHICAGO	
State/Country:	ILLINOIS	
Postal Code:	60606-1596	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16227659

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ATTORNEY DOCKET NUMBER:	18-1370-US-NP.289	
NAME OF SUBMITTER:	CHARLES L. MOORE; REG. NO.: 33742	
SIGNATURE:	/Charles L. Moore/	
DATE SIGNED:	12/20/2018	

Total Attachments: 2

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PATENT 505247861 REEL: 047833 FRAME: 0380

Docket No.: 18-1370-US-NP.289

ASSIGNMENT

WHEREAS, Jeffrey Scott Noel, residing at Tomance, CA, and Andrew Henry Giacobe, residing at Long Beach, CA (hereinafter "Assignor") have invented certain new and useful inventions and improvements (hereinafter "Invention") described in the United States patent application entitled OPTIMIZED POWER BALANCED VARIABLE THRUST TRANSFER ORBITS TO MINIMIZE AN ELECTRIC ORBIT RAISING DURATION which Assignors are making or has made application for LETTERS PATENT OF THE UNITED STATES, which application has been duly executed by Assignor concurrently herewith; or filed on December 20, 2018 as Application No. 16/227,659

If the lines above are blank, the above described patent application was filed on even date with the recordal of this assignment, otherwise, to comply with 37. C.F.R. § 3.21 for recordal of this assignment, I hereby authorize the attorneys for the Assignee to insert the filing date and application number below after they become known and prior to filing the recordation of this assignment.

WHEREAS, The Boeing Company, a corporation organized and existing under the laws of the State of Delaware, USA, having a place of business at 100 North Riverside Plaza, Chicago, Illinois 60606-1596, USA (hereinafter called "the Assignee"), is desirous of acquiring the entire right, title and interest in and to the Invention within the United States of America and its territorial possessions and all foreign countries, and in and to any United States or foreign LETTERS PATENT that may be granted therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged. Assignor has assigned, sold and transferred, and does assign, sell and transfer to the Assignee, its successors and assigns, the entire right, title and interest in and to the Invention within the United States of America and its territorial possessions and all foreign countries, and in and to any LETTERS PATENT of the United States and foreign countries, including utility models, inventor's certificates and like government grants that may be granted for any and all portions thereof, and in and to the patent application identified above and applications for patent filed for the Invention in all foreign countries and all provisional, divisional, reissue, continuation, continuation in part applications and extensions of any of the applications for patent or LETTERS PATENT identified herein, including all applications claiming the priority of said applications for patent or LETTERS PATENT identified herein, and the right to apply for LETTERS PATENT in foreign countries with full benefit of such priorities as may now or hereafter be granted to Assignor by local laws or by treaty, including any international convention, for the protection of industrial property, together with the right to extend the protection of the United States LETTERS PATENT to the various territorial possessions now owned or which may be hereafter acquired by the United States of America. Assignee will hold all rights for its own use and benefit and for the use and benefit of its successors or assigns to the full end of the term for which the LETTERS PATENT may be granted, as fully and entirely as the same would have been held and enjoyed by Assignor if this assignment and sale had not been made. Assignor requests and authorizes the Commissioner of the U.S. Patent and Trademark Office, and foreign counterpart officials of foreign patent offices, to issue respective LETTERS PATENT in the United States and foreign countries when granted, in accordance with this assignment.

Assignor further covenants and agrees with the Assignee that Assignor has a full and unencumbered title to the Invention, which title Assignor warrants to the Assignee. Assignor further agrees that Assignor will, without demanding any further consideration therefor, at the request and expense of the Assignee, do all lawful and just acts, including the execution and acknowledgment of instruments, that may be or become necessary for obtaining, sustaining, extending, reissuing or reexamining United States and foreign LETTERS PATENT or the like for the Invention, and for maintaining and perfecting the Assignee's right

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to the Invention and LETTERS PATENT particularly in cases of interference conflict, opposition and litigation.

IN TESTIMONY WHEREOF, I have signed this Assignment on the date specified below.

Date

Andrew Henry Giacobe

Date

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