PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date		
ALEXANDER PIRANER	07/25/2017		
SON T. VO	07/25/2017		
WAYNE PAULEY	07/25/2017		

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:	15659558					

CORRESPONDENCE DATA

Fax Number: (503)972-9115

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.

Phone: (503) 224-6655

Email:veronica@khpatent.comCorrespondent Name:KOLISCH HARTWELL, P.C.Address Line 1:520 SW YAMHILL STREETAddress Line 2:200 PACIFIC BUILDING

Address Line 4: PORTLAND, OREGON 97204

ATTORNEY DOCKET NUMBER: 17-0550-US-NP (BOE383)

NAME OF SUBMITTER: DAVID C. BOURGEAU III

SIGNATURE: / David C. Bourgeau III /

DATE SIGNED: 07/25/2017

Total Attachments: 1

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PATENT 504473345 REEL: 043095 FRAME: 0482

Boeing Docket No.: 17-0550-US-NP

ASSIGNMENT

WHE	EREAS, Ale	exander P	iraner, resid	ling at L	ong Be	ach, C	alifornia, So	n T. Vo. r	esidin	at Hunti	ngton Beach
Califo	ornia, and W	Vayne Pau	lley residing	at Seal	Beach,	Californ	nia (hereinaf	ler "Assign	or") h	as invente	d certain new
and u	seful invent	ions and	improvemer	its (herei	nafter "	Inventio	on") describe	d in the U	nited S	States pate	nt application
entitle	ed PREDIC	TIVE VA	LVE CON	rol s	YSTEM	for wh	iich Assigno	r is makin	g or h	as made a	pplication for
LET]	TERS PATE	ENT OF	THE UNI	TED ST	ATES,	which	application	has been	duly	executed	by Assignor
	irrently	herewith		filed	on		11 July 2	5, 2017		as	Application
No.	15/659	9,558								*********	

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, its 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 Assignor's interest in 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 to the Invention and LETTERS PATENT particularly in cases of interference conflict, opposition and litigation.

Assignor authorizes and directs any of the attorneys responsible for prosecuting the subject application on behalf of the ASSIGNEE to insert the application number and filing date of the subject application in the first paragraph of this Assignment.

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

Jexander Piraner

Date

Son T. Vo

7/25/17

Swage for 7/251

ne Pauley

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