502139666 11/26/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Kevin S. Callahan	11/15/2012
Robert Earl Fisher	11/26/2012
Santiago Alvarado Jr.	11/15/2012

RECEIVING PARTY DATA

Name:	The Boeing Company
Street Address:	P.O. Box 2515
Internal Address:	Mail Code: 110-SD54
City:	Seal Beach
State/Country:	CALIFORNIA
Postal Code:	90740

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13685524

CORRESPONDENCE DATA

Fax Number:

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

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Email: boeing@dascenzoiplaw.com

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Address Line 2: SUITE 925

Address Line 4: PORTLAND, OREGON 97204

ATTORNEY DOCKET NUMBER:	BNG 319
NAME OF SUBMITTER:	lan D. Gates

Total Attachments: 4

source=12-1279-ASSNCVR-BNG319_11-26-12#page1.tif source=12-1279-ASSN-BNG319_11-26-12#page1.tif source=12-1279-ASSN-BNG319_11-26-12#page2.tif source=12-1279-ASSN-BNG319_11-26-12#page3.tif

> PATENT REEL: 029350 FRAME: 0641

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RECORDATION FORM COVER SHEET PATENTS ONLY				
To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.				
1. Name of conveying party(ies)	2. Name and address of receiving party(ies)			
Kevin S. Callahan, Robert Earl Fisher, and Santiago Alvarado, Jr.	Name:THE BOEING COMPANY Internal Address:			
Additional name(s) of conveying party(ies) attached? Yes No 3. Nature of conveyance/Execution Date(s): Execution Date(s)11/15/12; 11/26/12; 11/15/12 X Assignment Merger Security Agreement Change of Name Joint Research Agreement Government Interest Assignment Executive Order 9424, Confirmatory License Other 4. Application or patent number(s): X This A. Patent Application No.(s)	Street Address: P.O. BOX 2515 MAIL CODE 110-SD54 City: SEAL BEACH State: CALIFORNIA Country: USA Zip: 90740 Additional name(s) & address(es) attached? Yes No document is being filed together with a new application. B. Patent No.(s)			
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 1			
Name: IAN D. GATES	7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00			
Internal Address: DASCENZO INTELLECTUAL PROPERTY LAW, P.C. Street Address: 522 SW 5TH AVENUE, SUITE 925	X Authorized to be charged to deposit account ☐ Enclosed			
City port AND	None required (government interest not affecting title) 8. Payment Information			
City: PORTLAND State: OFFICIAL Times and the state of the				
State: OREGON Zip: 97204				
Phone Number: <u>503-224-7529</u> Fax Number: <u>503-224-7329</u>	Deposit Account Number 504551			
Email Address: ian@dascenzoiplaw.com	Authorized User Name_ <u>IAN D. GATES</u>			
9. Signature: Signature	November 26, 2012 Date			
IAN D. GATES Name of Person Signing	Total number of pages including cover sheet, attachments, and documents:			

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

	ASSIGNMENT		Docket No.: BNG 319
WHEREAS, Kevin S. Callahan, residing Washington, and Santiago Alvarado, Jr., recertain new and useful inventions and imprapplication entitled BUSHINGS, APPARA for which Assignors are making or have n which application has been duly executed Application No;	esiding at Seattle, overnents (hereinaf TUSES INCLUDI nade application fo	Washington (hereinafte fer "Invention") describ NG BUSHINGS, AND LETTERS PATENT	r "Assignors") have invented sed in the United States patent ASSOCIATED METHODS OF THE UNITED STATES,
WHEREAS, The Boeing Company, a corp USA, having a place of business at 100 N. I P.O. Box 2515, Mail Code: 110-SD54, Seal of acquiring the entire right, title and interterritorial possessions and all foreign country may be granted therefor;	Riverside Plaza, Ch Beach, CA 90740, est in and to the In	icago, Illinois 60606-20 USA (hereinafter calle vention within the Uni	ol6, with a mailing address of different definition of the
NOW, THEREFORE, for good and var Assignors have assigned, sold and transfer assigns, the entire right, title and interest territorial possessions and all foreign counforeign countries, including utility models, is any and all portions thereof, and in and to the Invention in all foreign countries and applications and extensions of any of the apall applications claiming the priority of sather right to apply for LETTERS PATENT hereafter be granted to Assignors by loc protection of industrial property, together PATENT to the various territorial possession of America. Assignee will hold all rights for assigns to the full end of the term for whice same would have been held and enjoyed be request and authorize the Commissioner of of foreign patent offices, to issue respective granted, in accordance with this assignment.	red, and do assign, in and to the Invitries, and in and to nventor's certificate patent application all provisional, displications for patential paper and laws or by treawith the right to each or its own use and light to the LETTERS Pay Assignors if this the U.S. Patent and LETTERS PATERS	sell and transfer to the ention within the United any LETTERS PATE as and like government in identified above and a divisional, reissue, contact or LETTERS PATEN patent or LETTERS PATEN patent or LETTERS PATEN patent of Letter and for the use at the content of the use at the content and for the use at the content and for the use at the content and sale had Trademark Office, and	e Assignee, its successors and ed States of America and its ENT of the United States and grants that may be granted for applications for patent filed for inuation, continuation—in-part IT identified herein, including ATENT identified herein, and such priorities as may now or mational convention, for the The United States LETTERS acquired by the United States and benefit of its successors or ed, as fully and entirely as the ad not been made. Assignors d foreign counterpart officials
Assignors further covenant and agree with Invention, which title Assignors warrant to demanding any further consideration therefineluding the execution and acknowledge sustaining, extending, reissuing or reexaminvention, and for maintaining and perfeparticularly in cases of interference conflict	o the Assignee. And the request an anent of instrument ining United States of the Assignee.	Assignors further agreed expense of the Assign s, that may be or becand foreign LETTERS 's right to the Invention	that Assignors will, without nee, do all lawful and just acts, ome necessary for obtaining, S PATENT or the like for the
IN TESTIMONY WHEREOF, I/We have s	igned this Assignm	ent on the date specified	i below.
Ju Stall 11/15/1	2		
Kevin S. Callahan	Date	Santiago Alvarado, Jr.	Date

Date

Robert Earl Fisher

PATENT REEL: 029350 FRAME: 0643 ASSIGNMENT Docket No.: BNG 319

WHEREAS, Kevin S. Callahan, residing at Shoreline, Washington, Robert Earl Fisher, residing at Everett, Washington, and Santiago Alvarado, Jr., residing at Seattle, Washington (hereinafter "Assignors") have invented certain new and useful inventions and improvements (hereinafter "Invention") described in the United States patent application entitled BUSHINGS, APPARATUSES INCLUDING BUSHINGS, AND ASSOCIATED METHODS for which Assignors are making or have made application for LETTERS PATENT OF THE UNITED STATES, which application has been duly executed by Assignors concurrently herewith; or filed onas Application No; 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 N. Riverside Plaza, Chicago, Illinois 60606-2016, with a mailing address of P.O. Box 2515, Mail Code: 110-SD54, Seal Beach, CA 90740, 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
USA, having a place of business at 100 N. Riverside Plaza, Chicago, Illinois 60606-2016, with a mailing address of P.O. Box 2515, Mail Code: 110-SD54, Seal Beach, CA 90740, 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, Assignors have assigned, sold and transferred, and do 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 Assignors 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 Assignors if this assignment and sale had not been made. Assignors request and authorize 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 accordan
Assignors further covenant and agree with the Assignee that Assignors have a full and unencumbered title to the Invention, which title Assignors warrant to the Assignee. Assignors further agree that Assignors 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. IN TESTIMONY WHEREOF, I/We have signed this Assignment on the date specified below.
TO THE REST, IT WE have signed and ressignment on the date specified below.
Kevin S. Callahan Date Santiago Alvarado, Jr. Date
Robert Earl Fisher Date

PATENT REEL: 029350 FRAME: 0644 ASSIGNMENT Docket No.: BNG 31

WHEREAS, Kevin S. Callahan, residing at Shoreline, Washington, Robert Earl Fisher, residing at Everett, Washington, and Santiago Alvarado, Jr., residing at Seattle, Washington (hereinafter "Assignors") have invented certain new and useful inventions and improvements (hereinafter "invention") described in the United States patent application entitled BUSHINGS, APPARATUSES INCLUDING BUSHINGS, AND ASSOCIATED METHODS for which Assignors are making or have made application for LETTERS PATENT of THE UNITED STATES, which application has been duly executed by Assignors concurrently herewith; or filed on		ASSIGNME	dN 1	Docket No.:	BING 319
USA, having a place of business at 100 N. Riverside Plaza, Chicago, Illinois 60606-2016, with a mailing address of P.O. Box 2515, Mail Code: 110-SD54, Seal Beach, CA 90740, 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, Assignors have assigned, sold and transferred, and do 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-par 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 Assignors 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	Washington, and Santiago Alvara certain new and useful inventions application entitled BUSHINGS, for which Assignors are making which application has been duly	ado, Jr., residing at Seatt and improvements (here APPARATUSES INCLI or have made application executed by Assignors	tle, Washington (hereina inafter "Invention") desc UDING BUSHINGS, A n for LETTERS PATEN	ofter "Assignors" cribed in the Uni ND ASSOCIAT NT OF THE UN	') have invented ted States patent ED METHODS ITED STATES,
Assignors have assigned, sold and transferred, and do 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 on thereafter be granted to Assignors 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 Assignors if this assignment and sale had not been made. Assignors request and authorize 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 counterpart officials of foreign patent offices, to issue respective LeTTERS PATENT in the United States and foreign counterpart off	USA, having a place of business a P.O. Box 2515, Mail Code: 110-S of acquiring the entire right, title territorial possessions and all fore	at 100 N. Riverside Plaza D54, Seal Beach, CA 90 and interest in and to the	, Chicago, Illinois 60606 740, USA (hereinafter case Invention within the U	5-2016, with a malled "the Assign United States of	ailing address of nee"), is desirous America and its
Invention, which title Assignors warrant to the Assignee. Assignors further agree that Assignors 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. IN TESTIMONY WHEREOF, I/We have signed this Assignment on the date specified below.	Assignors have assigned, sold an assigns, the entire right, title and territorial possessions and all for foreign countries, including utility any and all portions thereof, and it the Invention in all foreign countries and extensions of any all applications and extensions of any all applications claiming the price the right to apply for LETTERS hereafter be granted to Assigno protection of industrial property, PATENT to the various territorial of America. Assignee will hold a assigns to the full end of the terms ame would have been held and request and authorize the Commit of foreign patent offices, to issue	d transferred, and do ass d interest in and to the eign countries, and in ar models, inventor's certifulation and to the patent applications and all provisionary of the applications for pority of said applications PATENT in foreign cours by local laws or by together with the right of possessions now owned all rights for its own use an for which the LETTER enjoyed by Assignors if ssioner of the U.S. Paten respective LETTERS P.	ign, sell and transfer to Invention within the Und to any LETTERS PARICATES and like government ation identified above and divisional, reissue, content or LETTERS PATE for patent or LETTERS pates with full benefit of treaty, including any is to extend the protection or which may be hereafund benefit and for the uses PATENT may be grathis assignment and salet and Trademark Office,	the Assignee, its nited States of ATENT of the Uent grants that mad applications for the ENT identified Is PATENT identified of the United States and benefit of the United States and benefit of the United, as fully and had not been mand foreign cou	s successors and America and its inited States and ay be granted for patent filed for tinuation—in-part herein, including ified herein, and as may now or vention, for the states LETTERS the United States its successors or id entirely as the made. Assignors nterpart officials
	Invention, which title Assignors demanding any further considerat including the execution and ack sustaining, extending, reissuing of Invention, and for maintaining	warrant to the Assigned ion therefor, at the request mowledgment of instrum or reexamining United St and perfecting the Assign	e. Assignors further agest and expense of the Assignors, that may be or bates and foreign LETTE gnee's right to the Investigation.	ree that Assigno signee, do all law secome necessar ERS PATENT of	ors will, without ful and just acts, by for obtaining, to the like for the
Kevin S. Callahan Date Santiago Alvarado, Jr. Date	IN TESTIMONY WHEREOF, I/V	We have signed this Assig	gnment on the date speci	fied below.	
Kevin S. Callahan Date Santiago Alvarado, Jr. Date					
Kevin S. Callahan Date Santiago Alvarado, Jr. Date			$\sim 10^{\circ}$		11/15/10
	Kevin S. Callahan	Date	Santiago Alvarado,	Jr.	Date

RECORDED: 11/26/2012

PATENT REEL: 029350 FRAME: 0645