502916344 07/31/2014

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT2962943

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JOHN RALPH HULL	07/22/2014
MICHAEL STRASIK	07/28/2014
BRET A. VOSS	07/21/2014
MARK A. NEGLEY	07/22/2014
WILLIAM J. SWEET	07/21/2014
KEVIN R. HOUSEN	07/22/2014
JASON S. DAMAZO	07/21/2014
MICHAEL D. GONZALES	07/29/2014
WILLIAM HOWARD-EDWARD WARE	06/30/2014
LEE CHARLES FIRTH	07/30/2014

RECEIVING PARTY DATA

Name:	THE BOEING COMPANY
Street Address:	MC H011-B171
Internal Address:	5301 BOLSA AVENUE
City:	HUNTINGTON BEACH
State/Country:	CALIFORNIA
Postal Code:	92647

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	14448305	

CORRESPONDENCE DATA

Fax Number: (314)621-5071

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: 314-621-5070

Email: USpatents@armstrongteasdale.com

Correspondent Name: JOHN S. BEULICK (24691) ARMSTRONG TEASDA

Address Line 1: 7700 FORSYTH BOULEVARD

Address Line 2: SUITE 1800

Address Line 4: ST. LOUIS, MISSOURI 63105

502916344 PATENT REEL: 033436 FRAME: 0435

ATTORNEY DOCKET NUMBER: 13-2447-US-NP (24691-750)			
NAME OF SUBMITTER: ROBERT B. REESER, III			
SIGNATURE: /Robert B. Reeser, III/			
DATE SIGNED: 07/31/2014			
Total Attachments: 8			
source=13-2447-US-NPAssignment31JUL2014-18413484#page1.tif			
source=13-2447-US-NPAssignment31JUL2014-18413484#page2.tif			

source=13-2447-US-NPAssignment31JUL2014-18413484#page1.tif source=13-2447-US-NPAssignment31JUL2014-18413484#page2.tif source=13-2447-US-NPAssignment31JUL2014-18413484#page3.tif source=13-2447-US-NPAssignment31JUL2014-18413484#page4.tif source=13-2447-US-NPAssignment31JUL2014-18413484#page5.tif source=13-2447-US-NPAssignment31JUL2014-18413484#page6.tif source=13-2447-US-NPAssignment31JUL2014-18413484#page7.tif source=13-2447-US-NPAssignment31JUL2014-18413484#page8.tif

PATENT REEL: 033436 FRAME: 0436

Attorney Docket No.

13-2447-US-NP (24691-750)

WHEREAS, The Boeing Company, a corporation organized and existing under the laws of the State of Delaware, US, having a place of business at 100 North Riverside Plaza, Chicago, Illinois 60606-2016, with a mailing address of MC H011-B171, 5301 Bolsa Avenue, Huntington Beach, CA 92647, 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 therefore;

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 therefore, 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.

John Ralph)	full 22 July 2014		
John Ralph Hull	DATE	Michael Strasik	DATE
Bret A. Voss	DATE	Mark A. Negley	DATE
William J. Sweet	DATE	Kevin R. Housen	DATE

1 of 2

PATENT

REEL: 033436 FRAME: 0437

Attorney Docket No.

13-2447-US-NP (24691-750)

WHEREAS, JOHN RALPH HULL, residing at Sammamish, Washington, MICHAEL STRASIK, residing at Sammamish, Washington, BRET A. VOSS, residing at Seattle, Washington, MARK A. NEGLEY, residing at Kirkland, Washington, WILLIAM J. SWEET, residing at Seattle, Washington, KEVIN R. HOUSEN, residing at Tacoma, Washington, JASON S. DAMAZO, residing at Seattle, Washington, MICHAEL D. GONZALES, residing Ravensdale, Washington, MICHAEL HOWARD-EDWARD WARE, residing at Renton, Washington, LEE CHARLES FIRTH, residing at Renton, Washington, (hereinafter "Assignor"), has/have invented certain new and useful inventions and improvements (hereinafter "Invention") described in the United States patent application entitled SYSTEMS AND METHODS FOR DUCT PROTECTION OF A VEHICLE for which Assignor is 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 as Application No.

WHEREAS, The Boeing Company, a corporation organized and existing under the laws of the State of Delaware, US, having a place of business at 100 North Riverside Plaza, Chicago, Illinois 60606-2016, with a mailing address of MC H011-B171, 5301 Bolsa Avenue, Huntington Beach, CA 92647, 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 therefore;

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 therefore, 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.

		Michael St	· Q 7/28/14
John Ralph Hull	DATE	Michael Strasik	DATE
Bret A. Voss	DATE	Mark A. Negley	DATE
William J. Sweet	DATE	Kevin R. Housen	DATE

1 of 2

Attorney Docket No.

13-2447-US-NP (24691-750)

WHEREAS, The Boeing Company, a corporation organized and existing under the laws of the State of Delaware, US, having a place of business at 100 North Riverside Plaza, Chicago, Illinois 60606-2016, with a mailing address of MC H011-B171, 5301 Bolsa Avenue, Huntington Beach, CA 92647, 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 therefore;

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 therefore, 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.

John Ralph Hull	DATE	Michael Strasik	DATE
Bet a Vor	7-21-2014		
Bret A. Voss	DATE	Mark A. Negley	DATE
William J. Sweet	DATE	Kevin R. Housen	DATE

1 of 2

PATENT REEL: 033436 FRAME: 0439

Attorney Docket No.

13-2447-US-NP (24691-750)

WHEREAS, JOHN RALPH HULL, residing at Sammamish, Washington, MICHAEL STRASIK, residing at Sammamish, Washington, BRET A. VOSS, residing at Seattle, Washington, MARK A. NEGLEY, residing at Kirkland, Washington, WILLIAM J. SWEET, residing at Seattle, Washington, KEVIN R. HOUSEN, residing at Tacoma, Washington, JASON S. DAMAZO, residing at Seattle, Washington, MICHAEL D. GONZALES, residing Ravensdale, Washington, MICHAEL HOWARD-EDWARD WARE, residing at Renton, Washington, LEE CHARLES FIRTH, residing at Renton, Washington, (hereinafter "Assignor"), has/have invented certain new and useful inventions and improvements (hereinafter "Invention") described in the United States patent application entitled SYSTEMS AND METHODS FOR DUCT PROTECTION OF A VEHICLE for which Assignor is 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 as Application No.

WHEREAS, The Boeing Company, a corporation organized and existing under the laws of the State of Delaware, US, having a place of business at 100 North Riverside Plaza, Chicago, Illinois 60606-2016, with a mailing address of MC H011-B171, 5301 Bolsa Avenue, Huntington Beach, CA 92647, 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 therefore;

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 therefore, 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.

John Ralph Hull	DATE
Bret Vass	DATE
WHAT	7/2/14
William J. Swest/	DATE

Michael Strasik

DATE

7/22/14

Mark A Negley

DATE

Living

Kevin R. Housen

DATE

1 of 2

ASSIGNMENT Attorney Docket No. 13-2447-US-NP (24691-750)

7-21-2014

Jason S. Damazo DATE Michael D. Gonzales DATE

Michael Howard-Edward Ware DATE Lee Charles Firth DATE

2 of 2

ASSIGNMENT		Attorney Do- 13-2447-US-NP		
Jason S. Damazo	DATE	Michael D. G. G. Michael D. Gonzales) 1	- 29·2014
Michael Howard-Edward Ware	DATE	Lee Charles Firth	DATE	

ASSIGNMENT Attorney Docket No. 13-2447-US-NP (24691-750)

Jason S. Damazo

DATE

Michael D. Gonzales

DATE

Michael Howard-Edward Ware

DATE

Lee Charles Firth

DATE

ASSIGNMENT	Attorney Docket No.
	13-2447-US-NP (24691-750)

Jason S. Damazo DATE Michael D. Gonzales DATE

RECORDED: 07/31/2014

Michael Howard-Edward Ware DATE

DATE

| Michael Howard-Edward Ware DATE | Lee Charles Firth DATE | DAT

PATENT REEL: 033436 FRAME: 0444