PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

SUBMISSION TYPE: NEW ASSIGNMENT NATURE OF CONVEYANCE: ASSIGNMENT

EPAS ID: PAT5297402

CONVEYING PARTY DATA

Name	Execution Date
HARINDER S. OBEROI	12/21/2018
KEVIN MARION BARRICK	12/21/2018
CHARLES YUANXIN HU	12/20/2018

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	16230280	

CORRESPONDENCE DATA

Fax Number: (214)200-0810

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Email: ipdocketing@haynesboone.com

HAYNES AND BOONE, LLP (70186) IP SECTION **Correspondent Name:**

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Address Line 2: SUITE 700

Address Line 4: DALLAS, TEXAS 75219

ATTORNEY DOCKET NUMBER:	70186.510US02
NAME OF SUBMITTER:	GREG J. MICHELSON
SIGNATURE:	/Greg. J. Michelson/
DATE SIGNED:	12/21/2018

Total Attachments: 3

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> **PATENT REEL: 047845 FRAME: 0038** 505250621

Docket No.: 70186.510US02 (18-0539-US-NP[2])

ASSIGNMENT

WHEREAS, Harinder S. Oberoi, residing at Snohomish, Washington, Kevin Marion Barrick, residing at Kingston, Washington, and Charles Yuanxin Hu, residing at Newcastle, Washington (hereinafter "Assignors") have invented certain new and useful inventions and improvements (hereinaster "Invention") described in the United States patent application entitled METHOD AND APPARATUS FOR SINGLE-SIDED CLAMP-UP 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 12/21/2018 as Application No. 16/230,280

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 60606-1596, with a mailing address of 100 N. 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, Assignors have assigned, sold and transferred, and do 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 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 accordance with this assignment.

Assignors further covenant and agree with the Assignee that Assignors have a full and unencumbered title to the Assignors' interest in 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.

Assignors authorize and direct 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 this assignment.

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IN TESTIMONY WHEREOF, V	ve have signed	<u> </u>	ment on the 0.018	late specified	i below
Harinder S. Oberoi	Date	100	01010		
Kevin Marion Barrick	Date	eccionada :			
Charles Yuanxin Hu	Date	·····			

4845-7713-7283 v.1

PATENT

Docket Nov. 70186.510US02 (18-0539-US-NP(2))

ASSIGNMENT

WHEREAS, Harinder S. Oberoi, residing at Snohonish, Washington, Kevin Marion Barrick, residing at Kingston, Washington, and Charles Yuankin Hu, residing at Newcastle, Washington (hereinafter "Assignors") have invented certain new and useful inventions and improvements (hereinafter "Invention") described in the United States patent application entitled METHOD AND APPARATUS FOR SINGLE-SIDED CLAMP-UP 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 12/21/2018 as Application No. 16/230,280 ;

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 60606-1596, with a mailing address of 100 N. 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, Assignors have assigned, sold and transferred, and do 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 grams that may be granted for any and all portious 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 safe 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 accordance with this assignment.

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Assignors authorize and direct 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 this assignment.

Harinder S. Oberoi Kein Marson Barriel 12/21/2018

Date

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

REEL: 047845 FRAME: 0040

Charles Yuanxin Hu

Docket No.: 70186.510US02 (18-0539-US-NP[2])

ASSIGNMENT

WHEREAS, Harinder S. Oberoi, residing at Snohomish, Washington, Kevin Marion Barrick, residing at Kingston, Washington, and Charles Yuanxin Hu, residing at Newcastle, Washington (hereinafter "Assignors") have invented certain new and useful inventions and improvements (hereinafter "Invention") described in the United States patent application entitled METHOD AND APPARATUS FOR SINGLE-SIDED CLAMP-UP 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 12/21/2018 as Application No. 16/230,280;

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

Harinder S. Oberoi

Date

Charles Yuanxin Hu Date

4845-7713-7283 v.1

RECORDED: 12/21/2018

Kevin Marion Barrick

PATENT REEL: 047845 FRAME: 0041