# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5875620

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
CHRISTOPHER R. LOESCHE	12/18/2019
JACOB E. KOOPMANS	12/17/2019
JONATHAN Y. AHN	12/17/2019

## **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:	16719527

## **CORRESPONDENCE DATA**

**Fax Number:** (801)531-1929

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:** 801-994-4646

Email:docket@kunzlerlaw.comCorrespondent Name:BRYAN J. MASSEYAddress Line 1:50 WEST BROADWAY

Address Line 2: 10TH FLOOR

Address Line 4: SALT LAKE CITY, UTAH 84101

ATTORNEY DOCKET NUMBER:	19-1663-US-NP
NAME OF SUBMITTER:	BRYAN J. MASSEY
SIGNATURE:	/Bryan J. Massey/
DATE SIGNED:	12/18/2019

#### **Total Attachments: 4**

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PATENT REEL: 051325 FRAME: 0719

#### ASSIGNMENT

WHEREAS, Christopher R. Loesche, residing at Bothell, WA, Jacob E. Koopmans, residing at Everett, WA, and Jonathan Y. Ahn, residing at Seattle, WA (hereinafter "Assignor") has invented certain new and useful inventions and improvements (hereinafter "Invention") described in the United States patent application entitled MATERIAL REMOVAL APPARATUS, SYSTEM, AND METHOD for which Assignor is making or has made application for LETTERS PATENT OF THE UNITED STATES, which application has been duly executed by Assignor filed on December 18, 2019 as Application No. 16/719,527;

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

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**PATENT** 

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.

IN TESTIMONY WHEREOF, I have	signed this Assignment on the date specified below.
Ada Cal	12/18/14
Christopher R. Loesche	Date
Jacob E. Koopmans	Date
Innathan V. Ahn	Ďata.
Jonathan Y. Ahn	Date

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Jacob E. Koopmans	n/11/2019
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Christopher R. Loesche Date

Jacob E. Koopmans Date

12/17/19

Jonathan Y Ahn Date