

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
NAIL HANOV	08/17/2016
ERIC L. NICKS	08/17/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	THE BOEING COMPANY
<b>Street Address:</b>	100 N. RIVERSIDE
<b>City:</b>	CHICAGO
<b>State/Country:</b>	ILLINOIS
<b>Postal Code:</b>	60606
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15240350
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
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<b>ATTORNEY DOCKET NUMBER:</b>	16-0207 BOCO/0268US
<b>NAME OF SUBMITTER:</b>	SUSAN S. KEEFER
<b>SIGNATURE:</b>	/Susan S. Keefer/
<b>DATE SIGNED:</b>	08/18/2016
<b>Total Attachments: 2</b>	
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**ASSIGNMENT**

WHEREAS, Nail Hanov, residing at, St. Louis, Missouri, and Eric L. Nicks, residing at Defiance, Missouri, have invented certain new and useful inventions and improvements (hereinafter "Invention") described in the United States patent application entitled **MODEL-BASED METHOD AND SYSTEM TO DETECT HEAT EXCHANGER FOULING** 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 \_\_\_\_\_, as 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, Chicago, Illinois 60606-1596, with a mailing address of M/C 1640-2101, 15460 Laguna Canyon Road, Irvine, California 92618, 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 Assignor 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 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, We have signed this Assignment on the date specified below.

  
\_\_\_\_\_  
Nail Hanov  
  
\_\_\_\_\_  
Eric L. Nicks

8/17/16  
\_\_\_\_\_  
Date  
8/17/16  
\_\_\_\_\_  
Date