

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4338274

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JILL MCLEAN	03/21/2017
VILLY ANGELICO	03/17/2017
BRADLEY J. TRAPP	03/20/2017
PAUL MURRAY	03/20/2017
RANDALL J. KROHN	03/20/2017
STEVE A. KERN	03/20/2017
KENN R. LUECKE	03/20/2017
WILLIAM KREKELER	03/20/2017
TIMOTHY J. DALE	03/20/2017
STEPHEN L. OLIVER JR.	03/20/2017
ALBERT PORTILLO	03/20/2017
JONATHAN N. HOTRA	03/20/2017
RACHEL ERTL	03/20/2017
ROLAND MAH	03/22/2017
CRAIG SOWADSKI	03/20/2017
KEVIN A. GRIDER	03/20/2017
E. MANOW SEAPOE JR.	03/20/2017
JOHN L. HENROID	03/21/2017

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:	15469084

CORRESPONDENCE DATA

Fax Number: (704)331-4955

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: 404-872-7000

Email: taskew@wcsr.com

Correspondent Name: WOMBLE CARLYLE SANDRIDGE & RICE LLP

Address Line 1: ATTN: IP DOCKETING

Address Line 2: P.O. BOX 7037

Address Line 4: ATLANTA, GEORGIA 30357-0037

ATTORNEY DOCKET NUMBER:	B86918 2420US.1 (0162.5)
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NAME OF SUBMITTER:	ANDREW T. SPENCE
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SIGNATURE:	/Andrew T. Spence/
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DATE SIGNED:	03/27/2017
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Total Attachments: 19

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ASSIGNMENT

WHEREAS, JILL McLEAN, residing at Whitesboro, NY; STEVEN L. OLIVER, residing at San Pedro, CA; VILLY V. ANGELICO, residing at El Segundo, CA; ALBERT PORTILLO, residing at Los Angeles, CA; BRADLEY J. TRAPP, residing at Maryland Heights, MO; JONATHAN N. HOTRA, residing at Maryland Heights, MO; PAUL MURRAY, residing at Huntsville, AL; RACHEL ERTL, residing at Madison, AL; RANDALL J. KROHN, residing at Chesterfield, MO; ROLAND MAH, residing at Monterey Park, CA; STEVE A. KERN, residing at St. Peters, MO; CRAIG SOWADSKI, residing at House Springs, MO; KENN R. LUECKE, residing at St. Peters, MO; KEVIN A. GRIDER, residing at St. Charles, MO; WILLIAM KREKELER, residing at St. Louis, MO; E. MANOW SEAPOE, JR., residing at Hazelwood, MO; TIMOTHY J. DALE, residing at St. Charles, MO; and JOHN L. HENROID, residing at St. Louis, MO (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 TESTING RF PERFORMANCE OF SATELLITE SIGNAL PROCESSING UNIT DESIGNS** 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 March 24, 2017 as Application No. 15/469,084;

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, Assignors have assigned, sold and transferred, and do assign, sell and transfer to the Assignee, its successors and assigns, their 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.

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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.

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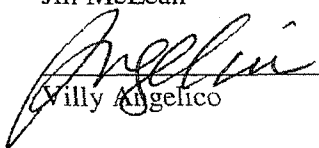
IN TESTIMONY WHEREOF, I have signed this Assignment on the date specified below.

<u>Jill McLean</u>	<u>3/21/2017</u>	<u>Steven L. Oliver, Jr.</u>	<u> </u>
	Date		Date
<u>Villy Angelico</u>	<u> </u>	<u>Albert Portillo</u>	<u> </u>
	Date		Date
<u>Bradley J. Trapp</u>	<u> </u>	<u>Jonathan N. Hotra</u>	<u> </u>
	Date		Date
<u>Paul Murray</u>	<u> </u>	<u>Rachel Ertl</u>	<u> </u>
	Date		Date
<u>Randall J. Krohn</u>	<u> </u>	<u>Roland Mah</u>	<u> </u>
	Date		Date
<u>Steve A. Kern</u>	<u> </u>	<u>Craig Sowadski</u>	<u> </u>
	Date		Date
<u>Kenn R. Luecke</u>	<u> </u>	<u>Kevin A. Grider</u>	<u> </u>
	Date		Date
<u>William Krekeler</u>	<u> </u>	<u>E. Manow Seapoe, Jr.</u>	<u> </u>
	Date		Date
<u>Timothy J. Dale</u>	<u> </u>	<u>John L. Henroid</u>	<u> </u>
	Date		Date

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_____ Jill McLean	_____ Date	_____ Steven L. Oliver, Jr.	_____ Date
 _____ Willy Angelico	3-17-17 _____ Date	_____ Albert Portillo	_____ Date
_____ Bradley J. Trapp	_____ Date	_____ Jonathan N. Hotra	_____ Date
_____ Paul Murray	_____ Date	_____ Rachel Ertl	_____ Date
_____ Randall J. Krohn	_____ Date	_____ Roland Mah	_____ Date
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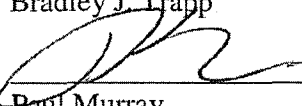
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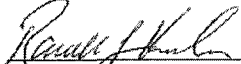
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_____	_____	_____	_____
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Kenn R. Luecke	Date	Kevin A. Grider	Date
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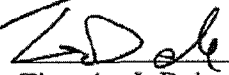
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Docket No. 16-2007

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_____	_____	<i>Stephen J. Oliver</i>	_____
Jill McLean	Date	Stephen L. Oliver, Jr.	Date
		<i>4th Stephen L. Oliver Jr.</i>	<i>3/20/17</i>
_____	_____	_____	_____
Villy Angelico	Date	Albert Portillo	Date
_____	_____	_____	_____
Bradley J. Trapp	Date	Jonathan N. Hotra	Date
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William Krakeler	Date	F. Manow Seane Jr	Date

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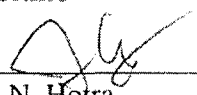
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_____ Kenn R. Luecke	_____ Date	_____ Kevin A. Grider	_____ Date
_____ William Krekeler	_____ Date	_____ E. Manow Seapoe, Jr.	_____ Date
_____ Timothy J. Dale	_____ Date	_____ John L. Henroid	_____ Date

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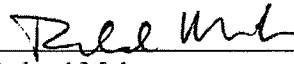
IN TESTIMONY WHEREOF, I have signed this Assignment on the date specified below:

_____ Jill McLean	_____ Date	_____ Steven L. Oliver, Jr.	_____ Date
_____ Villy Angelico	_____ Date	_____ Albert Portillo	_____ Date
_____ Bradley J. Trapp	_____ Date	_____ Jonathan N. Hotra	_____ Date
_____ Paul Murray	_____ Date	<i>Rachel Ertl</i> _____ Rachel Ertl	<i>3/20/17</i> _____ Date
_____ Randall J. Krohn	_____ Date	_____ Roland Mah	_____ Date
_____ Steve A. Kern	_____ Date	_____ Craig Sowadski	_____ Date
_____ Kenn R. Luecke	_____ Date	_____ Kevin A. Grider	_____ Date
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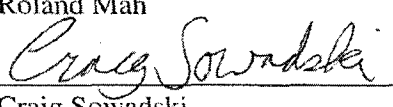
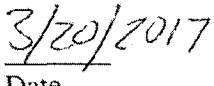
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_____ Paul Murray	_____ Date	_____ Rachel Ertl	_____ Date
_____ Randall J. Krohn	_____ Date	 _____ Roland Mah	<u>03/22/2017</u> _____ Date
_____ Steve A. Kern	_____ Date	_____ Craig Sowadski	_____ Date
_____ Kenn R. Luecke	_____ Date	_____ Kevin A. Grider	_____ Date
_____ William Krekeler	_____ Date	_____ E. Manow Seapoe, Jr.	_____ Date
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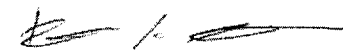
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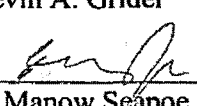
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_____ Kenn R. Luecke	_____ Date	 _____ Kevin A. Grider	_____ 3/2-117 Date
_____ William Krekeler	_____ Date	_____ E. Manow Seapoe, Jr.	_____ Date
_____ Timothy J. Dale	_____ Date	_____ John L. Henroid	_____ Date

to issue respective LETTERS PATENT in the United States and foreign countries when granted, in accordance with this Assignment.

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<u>Bradley J. Trapp</u>	<u>Date</u>	<u>Jonathan N. Hotra</u>	<u>Date</u>
<u>Paul Murray</u>	<u>Date</u>	<u>Rachel Ertl</u>	<u>Date</u>
<u>Randall J. Krohn</u>	<u>Date</u>	<u>Roland Mah</u>	<u>Date</u>
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<u>Kenn R. Luecke</u>	<u>Date</u>	<u>Kevin A. Grider</u>	<u>Date</u>
<u>William Krekeler</u>	<u>Date</u>	 <u>E. Manow Seapoe, Jr.</u>	<u>3/20/2017</u> <u>Date</u>
<u>Timothy J. Dale</u>	<u>Date</u>	<u>John L. Henroid</u>	<u>Date</u>

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_____ Timothy J. Dale	_____ Date	 _____ John L. Henroid	_____ 3/21/17 Date