

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT2705497

SUBMISSION TYPE:	NEW ASSIGNMENT						
NATURE OF CONVEYANCE:	ASSIGNMENT						
CONVEYING PARTY DATA							
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>ROBERT D. BROWN</td> <td>01/29/2014</td> </tr> <tr> <td>JAMES H. STANLEY</td> <td>01/24/2014</td> </tr> </tbody> </table>		Name	Execution Date	ROBERT D. BROWN	01/29/2014	JAMES H. STANLEY	01/24/2014
Name	Execution Date						
ROBERT D. BROWN	01/29/2014						
JAMES H. STANLEY	01/24/2014						
RECEIVING PARTY DATA							
Name:	ROCKWELL COLLINS, INC.						
Street Address:	400 COLLINS ROAD NE						
Internal Address:	M/S 124-323						
City:	CEDAR RAPIDS						
State/Country:	IOWA						
Postal Code:	52498						
PROPERTY NUMBERS Total: 1							
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>14168173</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14168173		
Property Type	Number						
Application Number:	14168173						
CORRESPONDENCE DATA							
Fax Number:	(319)295-8777						
Phone:	319-295-1184						
Email:	skmathew@rockwellcollins.com, cfitzsimmons@foley.com, csimpson@foley.com						
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>							
Correspondent Name:	ROCKWELL COLLINS INTELLECTUAL PROPERTY						
Address Line 1:	400 COLLINS ROAD NE						
Address Line 2:	M/S 124-323						
Address Line 4:	CEDAR RAPIDS, IOWA 52498						
ATTORNEY DOCKET NUMBER:	14FD004 (047141-0973)						
NAME OF SUBMITTER:	JOSEPH N. ZIEBERT						
Signature:	/Joseph N. Ziebert/						

PATENT

Date:

01/30/2014

Total Attachments: 4

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ASSIGNMENT - WORLDWIDE

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor (hereinafter referred to singly and collectively as "ASSIGNOR") has sold, assigned, and transferred, and by these presents hereby sells, assigns, and transfers, unto

Rockwell Collins, Inc.
400 Collins Road NE
M/S 124-323
Cedar Rapids, Iowa 52498

(hereinafter referred to as "ASSIGNEE") its successors and assigns, the full and exclusive right, title and interest for the United States, its territories and possessions, and all foreign countries in and to this invention relating to

HIGH PERFORMANCE VOLUME PHASE GRATINGS

as set forth in this United States Patent Application

check one [X] executed concurrently herewith,
 [] executed on _____,
 [] Serial No. _____ Filed _____

as well as in and to (a) all improvements and modifications of the above-identified invention or inventions, (b) the above-identified application and all other applications for Letters Patent of the United States and countries foreign thereto for above-identified invention or inventions and all improvements and modifications thereof, (c) all Letters Patent which may issue from said applications in the United States and countries foreign thereto, (d) all divisions, continuations, reissues, and extensions of said applications and Letters Patent, and (e) the right to claim for any of said applications the full benefits and priority rights under the Patent Cooperation Treaty, the Paris Convention and any other international agreement; such right, title, and interest to be held and enjoyed by ASSIGNEE, its successors and assigns, to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by ASSIGNOR had this Assignment not been made.

ASSIGNOR HEREBY AUTHORIZES ASSIGNEE to file patent applications in any or all countries on the above-identified invention or inventions in the name of the undersigned or in the name of ASSIGNEE or otherwise as ASSIGNEE may deem advisable under the International Convention or otherwise.

ASSIGNOR HEREBY AUTHORIZES AND REQUESTS the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE as assignee of the entire interest, for the sole use and benefit of ASSIGNEE, its successors and assigns.

ASSIGNOR HEREBY AGREES (a) to communicate to ASSIGNEE, its successors and assigns, or their representative or agents, all facts and information known or available to ASSIGNOR respecting said invention or inventions, improvements, and modifications including evidence for interference, reexamination, reissue, opposition, revocation, extension, or infringement purposes or other legal, judicial, or administrative proceedings, whenever requested by ASSIGNEE; (b) to testify in person or by affidavit as required by ASSIGNEE, its successors and assigns, in any such proceeding in the United States or a country foreign thereto; (c) to execute and deliver, upon request by ASSIGNEE, all lawful papers including, but not limited to, original, divisional, continuation, and reissue applications, renewals, assignments, powers of attorney, oaths, affidavits, and declarations, depositions; and (d) to provide all reasonable assistance to ASSIGNEE, its successors and assigns, in obtaining and enforcing proper title in and protection for said invention or inventions, improvements, and modifications under the intellectual property laws of the United States and countries foreign thereto.

ASSIGNOR HEREBY REPRESENTS AND WARRANTS that ASSIGNOR has the full and unencumbered right to sell, assign, and transfer the interests sold, assigned, and transferred herein, and that ASSIGNOR has not executed and will not execute any document or instrument in conflict herewith.

ASSIGNOR HEREBY GRANTS to the law firm of **Foley & Lardner LLP** the power and authority to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

ASSIGNOR UNDERSTANDS AND AGREES that the attorneys and agents of the law firm of **Foley & Lardner LLP** do not personally represent ASSIGNOR OR ASSIGNOR's legal interests, but instead represent the interests of ASSIGNEE; since said attorneys and agents cannot provide legal advice to ASSIGNOR with respect to this Assignment, ASSIGNOR acknowledges its right to seek its own independent legal counsel.

Executed this 29 day of January, 2014.

Robert D Brown

ROBERT D. BROWN

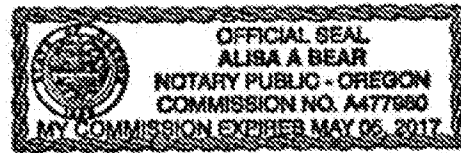
State of OREGON)

County of Clackamas)

On this 29 day of January, 2014, before me, Alisa A. Bear (a notary public in and for said county), personally appeared ROBERT D. BROWN, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal

Signature: Alisa A. Bear



My Commission Expires: 5/5/2017

Executed this _____ day of _____, 20____.

JAMES H. STANLEY

State of _____)

County of _____)

On this _____ day of _____, 20____, before me, _____ (a notary public in and for said county), personally appeared JAMES H. STANLEY, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal

Signature: _____

My Commission Expires: _____

Executed this _____ day of _____, 20__.

ROBERT D. BROWN

State of _____)

County of _____)

On this _____ day of _____, 20__, before me, _____ (a notary public in and for said county), personally appeared ROBERT D. BROWN, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature _____

My Commission Expires: _____

Executed this 24 day of January, 2014.

James H Stanley
JAMES H. STANLEY

State of CA)

County of _____)

On this 24 day of JAN, 2014, before me, SAM SAHI (a notary public in and for said county), personally appeared JAMES H. STANLEY, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature [Signature]

My Commission Expires: 1/25/2015

