# 503158794 01/30/2015

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3205408

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
DONALD J. WHALEN	01/28/2015
BRAD A. WALKER	01/29/2015
SCOTT E. SCHULTZ	01/26/2015
RONALD E. HEBERLEIN	01/23/2015
DAVID I. HAN	01/23/2015

#### **RECEIVING PARTY DATA**

Name:	ROCKWELL COLLINS, INC.
Street Address:	400 COLLINS ROAD NE
Internal Address:	ATTN: INTELLECTUAL PROPERTY DEPT, M/S 124-323
City:	CEDAR RAPIDS
State/Country:	IOWA
Postal Code:	52498

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	14609651

# **CORRESPONDENCE DATA**

**Fax Number:** (319)295-8777

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:** 319-295-1184

**Email:** sheila.mathews@rockwellcollins.com

Correspondent Name: ROCKWELL COLLINS, INC. INTELLECTUAL PROP

Address Line 1: 400 COLLINS ROAD NE

**Address Line 2:** M/S 124-323

Address Line 4: CEDAR RAPIDS, IOWA 52498

ATTORNEY DOCKET NUMBER:	14CR817
NAME OF SUBMITTER:	ERIC M. NEWHOUSE
SIGNATURE:	/eric m newhouse/
DATE SIGNED:	01/30/2015

PATENT 503158794 REEL: 034851 FRAME: 0303

# **Total Attachments: 5** source=14CR817\_Assignment#page1.tif source=14CR817\_Assignment#page2.tif source=14CR817\_Assignment#page3.tif

source=14CR817\_Assignment#page4.tif source=14CR817\_Assignment#page5.tif

	WHEREAS,	Donald	J. V	Vhalen,	of	Ceda	ır Rap	oids,	Count	y of	Dian.	, 8	ind	State	of
lowa,	hereinafter	someti	mes	referred	d to	as c	"said	inve	ntor",	has	invented	certa	in i	new :	and
useful	improveme	nts in													

#### SENSOR-BASED NAVIGATION CORRECTION

which invention or inventions (hereinafter referred to as "inventions") have been disclosed to and filed, under Docket No. 14CR817, in the patent files of the inventor's employer, ROCKWELL COLLINS, INC., and which invention is covered by a patent application, executed and filed concurrently herewith.

It is now agreed that, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the said inventor has sold, assigned and transferred and by these presents does sell, assign and transfer unto ROCKWELL COLLINS, INC., the entire right, title and interest in and to said invention in and to said application, for the territory of the United States of America and for all foreign countries; said invention and application to be held and enjoyed by the said ROCKWELL COLLINS, INC., for its own use and for the use of its successors and assigns, to the full end of the term for which Letters Patent on same will be granted, as fully and entirely as the same would have been held by said inventor had this Assignment and sale not been made.

FURTHER, said inventor hereby agrees to sign all lawful papers necessary or helpful in obtaining patents, whether U.S. or foreign, on said invention or filing any divisional, continuation, substitution, or reissue application on said invention.

Exe	ecuted at <u>(Regil</u>	C POPIAS	, County of	<u> </u>	and
State of _	<u>Jowa</u>	, this <u>28</u> day	y of <u>Janua</u>	<u>64</u> , 20 <u>15</u> .	
				oral L. W.	262
			Dor	nald J. Whalen	
State of County of	Joua Don				
On	this <u>28</u> day of	January	, 20_/5	, before me personal	lly appeared
		,		ne is subscribed to th	
instrumen	t, and acknowledge	ed to me that he	executed the sa	ime.	

Notary Public:

My Commission Expires: \_\_\_\_\_
Commission Number: \_\_\_\_

Commission Number 775594
My Commission Expires
November 5, 2015

WHEREAS, Brad A. Walker, of Mount Vernon, County of <u>Lina</u>, and State of Iowa, hereinafter sometimes referred to as "said inventor", has invented certain new and useful improvements in

#### SENSOR-BASED NAVIGATION CORRECTION

which invention or inventions (hereinafter referred to as "inventions") have been disclosed to and filed, under Docket No. 14CR817, in the patent files of the inventor's employer, ROCKWELL COLLINS, INC., and which invention is covered by a patent application, executed and filed concurrently herewith.

It is now agreed that, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the said inventor has sold, assigned and transferred and by these presents does sell, assign and transfer unto ROCKWELL COLLINS, INC., the entire right, title and interest in and to said invention in and to said application, for the territory of the United States of America and for all foreign countries; said invention and application to be held and enjoyed by the said ROCKWELL COLLINS, INC., for its own use and for the use of its successors and assigns, to the full end of the term for which Letters Patent on same will be granted, as fully and entirely as the same would have been held by said inventor had this Assignment and sale not been made.

FURTHER, said inventor hereby agrees to sign all lawful papers necessary or helpful in obtaining patents, whether U.S. or foreign, on said invention or filing any divisional, continuation, substitution, or reissue application on said invention.

Executed at Rectical	<u>G/l/As</u> , County of <u>L/AA</u> ;	and
State of	ু, this <u> এপ</u> day of <u>চিত্র ১০০ন্ত</u> , 20 <u>15</u> .	
	<u> 300 a 41</u>	
	Brad A. Walker	
State of Sta		
On this Land day of (	<i>]</i>	ıred
Brad A. Walker to me known	to be the person whose name is subscribed to the forego	gnic
instrument, and acknowledged	to me that he executed the same.	. Septe
	Notary Public: 2/2/2/	
(Seal)	My Commission Expires: <u>2/C345</u> / Commission Number: <u>2245</u> を	
SUSAN E CAIRY	and the second s	

Matary Public, State of lowe Commission No. 739156 My Commission Expires Fabruary 15, 2015

WHEREAS, Scott E. Schultz, of Cedar Rapids, County of <u>Line</u>, and State of Iowa, hereinafter sometimes referred to as "said inventor", has invented certain new and useful improvements in

# SENSOR-BASED NAVIGATION CORRECTION

which invention or inventions (hereinafter referred to as "inventions") have been disclosed to and filed, under Docket No. 14CR817, in the patent files of the inventor's employer, ROCKWELL COLLINS, INC., and which invention is covered by a patent application, executed and filed concurrently herewith.

It is now agreed that, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the said inventor has sold, assigned and transferred and by these presents does sell, assign and transfer unto ROCKWELL COLLINS, INC., the entire right, title and interest in and to said invention in and to said application, for the territory of the United States of America and for all foreign countries; said invention and application to be held and enjoyed by the said ROCKWELL COLLINS, INC., for its own use and for the use of its successors and assigns, to the full end of the term for which Letters Patent on same will be granted, as fully and entirely as the same would have been held by said inventor had this Assignment and sale not been made.

FURTHER, said inventor hereby agrees to sign all lawful papers necessary or helpful in obtaining patents, whether U.S. or foreign, on said invention or filing any divisional, continuation, substitution, or reissue application on said invention.

	Execute	d at_	Cedor	RAP!	ds	, County of		Linn		and
State o	of	000	il.	_, this _	<u> 26</u> day	of <u>Janu</u>	get of the same		, 20 <u>./5</u> .	
						نمین	1	2	- Alder	diction.
						**************************************	Scott	E. Schul	tz	
State o County		Te	WA June	<b>)</b>						

On this <u>26 day of <u>Tunuary</u>, 20<u>15</u>, before me personally appeared Scott E. Schultz to me known to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same.</u>

January 22, 2016	49901
62) psy Commission Expites	aun 🐷
Commission Number 220376	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
DERIZE KBERT	_ 1639.

Notary Public: DLM	uso L. Kung
My Commission Expires:	1-22-16
Commission Number:	220376

WHEREAS, Ronald E. Heberlein, of Wilsonville, County of <u>claceases</u>, and State of Oregon, hereinafter sometimes referred to as "said inventor", has invented certain new and useful improvements in

#### SENSOR-BASED NAVIGATION CORRECTION

which invention or inventions (hereinafter referred to as "inventions") have been disclosed to and filed, under Docket No. 14CR817, in the patent files of the inventor's employer, ROCKWELL COLLINS, INC., and which invention is covered by a patent application, executed and filed concurrently herewith.

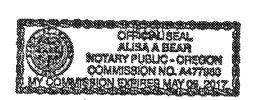
It is now agreed that, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the said inventor has sold, assigned and transferred and by these presents does sell, assign and transfer unto ROCKWELL COLLINS, INC., the entire right, title and interest in and to said invention in and to said application, for the territory of the United States of America and for all foreign countries; said invention and application to be held and enjoyed by the said ROCKWELL COLLINS, INC., for its own use and for the use of its successors and assigns, to the full end of the term for which Letters Patent on same will be granted, as fully and entirely as the same would have been held by said inventor had this Assignment and sale not been made.

FURTHER, said inventor hereby agrees to sign all lawful papers necessary or helpful in obtaining patents, whether U.S. or foreign, on said invention or filing any divisional, continuation, substitution, or reissue application on said invention.

E	xecuted at <u>ROCCW</u> U	Lalins	, County of	Clackamas	
State of	<u>oreboni</u>	_, this <u>23</u> _ d	ay of Jazo	<u>vaert                                    </u>	on 2
			per constitution of the co	<u>izioel</u>	- Comment of the Comm
				Ronald E. Heberlein	
Paine as	<i>^</i> `` <i>○</i> 74.4.△	,			

On this <u>23</u> day of <u>Jan Virit</u>, 20<u>15</u>, before me personally appeared Ronald E. Heberlein to me known to be the person whose name is subscribed to the foregoing

Instrument, and acknowledged to me that he executed the same.



County of

	WHE	REAS,	David	I.IHan,	of L	ake	Oswi	ego,	County	of	clackemas	, and	State	of (	Oregon,
herein	after	some	times	referred	to	as	"sald	inve	entor",	has	invented	certain	new	and	luseful
imorov	/emei	nts in													

#### SENSOR-BASED NAVIGATION CORRECTION

which invention or inventions (hereinafter referred to as "inventions") have been disclosed to and filed, under Docket No. 14CR817, in the patent files of the inventor's employer, ROCKWELL COLLINS, INC., and which invention is covered by a patent application, executed and filed concurrently herewith.

it is now agreed that, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the said inventor has sold, assigned and transferred and by these presents does sell, assign and transfer unto ROCKWELL COLLINS, INC., the entire right, title and interest in and to said invention in and to said application, for the territory of the United States of America and for all foreign countries; said invention and application to be held and enjoyed by the said ROCKWELL COLLINS, INC., for its own use and for the use of its successors and assigns, to the full end of the term for which Letters Patent on same will be granted, as fully and entirely as the same would have been held by said inventor had this Assignment and sale not been made.

FURTHER, said inventor hereby agrees to sign all lawful papers necessary or helpful in obtaining patents, whether U.S. or foreign, on said invention or filing any divisional, continuation, substitution, or reissue application on said invention.

Exe	cuted at <u>fockwel</u>	<u> collins</u>	, County of		and
State of	<u>XESSON</u>	this <u>23</u> d	ay of Janu	<u>aryo</u> a 3015-	)
	et e		<u>~</u>		r
			A	740 <u>0,</u> /02	angaminimini M
			**	David I. Han	
State of	Owen	)			
County of	Caclemas	j			

On this 23 day of <u>January</u>, 2015, before me personally appeared David I. Han to me known to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same.

OFFICIAL SEAL
ALISA X FEAR
NOTARY PUBLIC - OREGIN
COMMISSION NO. AUT7988
NY COMMISSION TYPES NAY 08, 2017

Notary Public: UUDA DEA

My Commission Expires: 5.5.2017

Commission Number: A477980

PATENT REEL: 034851 FRAME: 0309

RECORDED: 01/30/2015