

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

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>Clive J. Littlechild</td> <td>04/30/2012</td> </tr> <tr> <td>Gregory D. Reynolds</td> <td>04/25/2012</td> </tr> <tr> <td>Craig E. Harwood</td> <td>05/09/2012</td> </tr> <tr> <td>Susan T. Schnapp</td> <td>04/26/2012</td> </tr> </tbody> </table>		Name	Execution Date	Clive J. Littlechild	04/30/2012	Gregory D. Reynolds	04/25/2012	Craig E. Harwood	05/09/2012	Susan T. Schnapp	04/26/2012		
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<table border="1"> <tr> <td>Name:</td> <td>Rockwell Collins, Inc.</td> </tr> <tr> <td>Street Address:</td> <td>400 Collins Road NE</td> </tr> <tr> <td>Internal Address:</td> <td>Intellectual Property Dept., M/S 124-323</td> </tr> <tr> <td>City:</td> <td>Cedar Rapids</td> </tr> <tr> <td>State/Country:</td> <td>IOWA</td> </tr> <tr> <td>Postal Code:</td> <td>52498</td> </tr> </table>		Name:	Rockwell Collins, Inc.	Street Address:	400 Collins Road NE	Internal Address:	Intellectual Property Dept., M/S 124-323	City:	Cedar Rapids	State/Country:	IOWA	Postal Code:	52498
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PROPERTY NUMBERS Total: 1													
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CORRESPONDENCE DATA													
<p>Fax Number: (319)295-8777</p> <p>Phone: 319-295-8280</p> <p>Email: dmbarb@rockwellcollins.com</p> <p><i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: ROCKWELL COLLINS, INC. INTELLECTUAL PROP</p> <p>Address Line 1: 400 COLLINS ROAD NE</p> <p>Address Line 2: M/S 124-323</p> <p>Address Line 4: CEDAR RAPIDS, IOWA 52498</p>													
ATTORNEY DOCKET NUMBER:	12CR313												
NAME OF SUBMITTER:	Richard A. Kruse												

CH \$40.00 29414502

Total Attachments: 4

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ASSIGNMENT OF INVENTION

WHEREAS, Clive J. Littlechild, of Cedar Rapids, County of Linn, and State of Iowa, hereinafter sometimes referred to as "said inventor", has invented certain new and useful improvements in

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which invention or inventions (hereinafter referred to as "inventions") have been disclosed to and filed, under Docket No. 12CR313, 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.

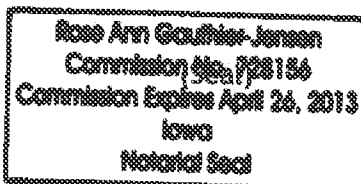
Executed at Cedar Rapids, County of Linn and State of Iowa, this 30 day of April, 2012

Clive J. Littlechild

CLIVE J. LITTLECHILD

State of Iowa)
County of Linn)

On this 30 day of April, 2012, before me personally appeared Clive J. Littlechild to me known to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same.



Notary Public: Rose Ann Gauthier-Jensen
My Commission Expires: 4/26/2013
Commission Number: 728156

ASSIGNMENT OF INVENTION

WHEREAS, Gregory D. Reynolds, of Cedar Rapids, County of Linn, and State of Iowa, hereinafter sometimes referred to as "said inventor", has invented certain new and useful improvements in

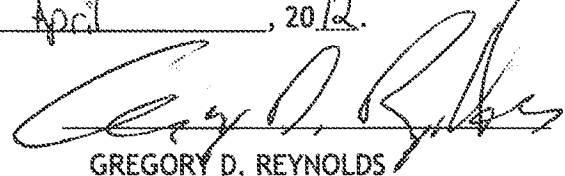
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which invention or inventions (hereinafter referred to as "inventions") have been disclosed to and filed, under Docket No. 12CR313, in the patent files of the inventor's employer, ROCKWELL COLLINS, INC., and which invention is covered by a patent application, 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.


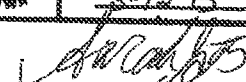
FURTHER, said inventor hereby agrees to sign all lawful papers necessary or helpful in obtaining patents, whether U.S. or foreign, on said invention or filing any divisional, continuation, substitution, or reissue application on said invention.

Executed at Collins Community Credit Union County of Linn and State of Iowa, this 25th day of April, 2012.


GREGORY D. REYNOLDS

State of Iowa)
County of Linn)

On this 25th day of April, 2012, before me personally appeared Gregory D. Reynolds to me known to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same.

(Seal)  SARAH GETZ Notary Public: Sarah Getz
Commission Number 77207 Commission Expires: 3-12-15
My Commission Expires: 3-12-15 Commission Number: 77207


ASSIGNMENT OF INVENTION

WHEREAS, Craig E. Harwood, of Cedar Rapids, County of Linn, and State of Iowa, hereinafter sometimes referred to as "said inventor", has invented certain new and useful improvements in

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which invention or inventions (hereinafter referred to as "inventions") have been disclosed to and filed, under Docket No. 12CR313, 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.

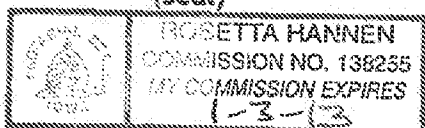
FURTHER, said inventor hereby agrees to sign all lawful papers necessary or helpful in obtaining patents, whether U.S. or foreign, on said invention or filing any divisional, continuation, substitution, or reissue application on said invention.

Executed at CEAR RAPIDS, County of LINN and State of IOWA, this 9th day of MAY, 2012


CRAIG E. HARWOOD

State of Iowa)
County of Linn)

On this 9th day of May, 2012, before me personally appeared Craig E. Harwood to me known to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same.



Notary Public: Rosetta Hannen
My Commission Expires: 1-3-13
Commission Number: 138235

ASSIGNMENT OF INVENTION

WHEREAS, Susan T. Schnapp, of Hillsboro, County of Washington and State of Oregon, hereinafter sometimes referred to as "said inventor", has invented certain new and useful improvements in

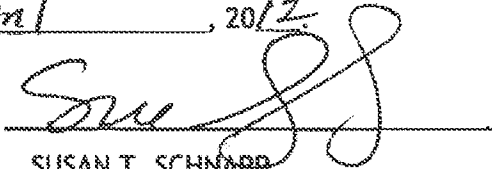
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which invention or inventions (hereinafter referred to as "inventions") have been disclosed to and filed, under Docket No. 12CR313, in the patent files of the inventor's employer, ROCKWELL COLLINS, INC., and which invention is covered by a patent application, 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.

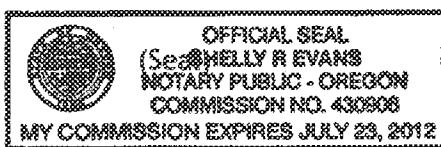
FURTHER, said inventor hereby agrees to sign all lawful papers necessary or helpful in obtaining patents, whether U.S. or foreign, on said invention or filing any divisional, continuation, substitution, or reissue application on said invention.

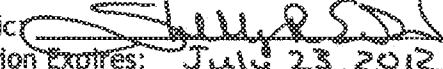
Executed at Rockwell Collins, County of Clackamas and State of Oregon, this 26 day of April, 2012.


SUSAN T. SCHNAPP

State of Oregon)
County of Clackamas)

On this 26 day of April, 2012, before me personally appeared Susan T. Schnapp to me known to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same.



Notary Public 
My Commission Expires: July 23, 2012
Commission Number: 430906