

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>Tyler J. Wilson</td> <td>04/12/2013</td> </tr> <tr> <td>Brian L. Aanderud</td> <td>04/12/2013</td> </tr> <tr> <td>Scott C. Bjornsen</td> <td>04/10/2013</td> </tr> <tr> <td>Donald F. Hovda</td> <td>04/10/2013</td> </tr> </tbody> </table>		Name	Execution Date	Tyler J. Wilson	04/12/2013	Brian L. Aanderud	04/12/2013	Scott C. Bjornsen	04/10/2013	Donald F. Hovda	04/10/2013
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Tyler J. Wilson	04/12/2013										
Brian L. Aanderud	04/12/2013										
Scott C. Bjornsen	04/10/2013										
Donald F. Hovda	04/10/2013										
RECEIVING PARTY DATA											
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										
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>13861468</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13861468						
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Application Number:	13861468										
CORRESPONDENCE DATA											
Fax Number:	3192958777										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	319-295-8280										
Email:	skmathew@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:	13CR333										
NAME OF SUBMITTER:	Shane R. Thielen										

CH \$40.00 13861468

Signature:	/shane r thielen/
Date:	04/12/2013
Total Attachments: 4 source=13CR333_Assignment#page1.tif source=13CR333_Assignment#page2.tif source=13CR333_Assignment#page3.tif source=13CR333_Assignment#page4.tif	

ASSIGNMENT OF INVENTION

WHEREAS, Tyler J. Wilson, of Springville, County of Linn, and State of Iowa, hereinafter sometimes referred to as "said inventor", has invented certain new and useful improvements in

DYNAMIC DIRECTIONALITY FOR MOBILE AD-HOC NETWORKS

which invention or inventions (hereinafter referred to as "inventions") have been disclosed to and filed, under Docket No. 13CR333, 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.

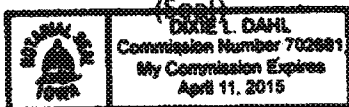
Executed at Cedar Rapids, County of Linn and State of Iowa, this 12th day of April, 2013.

Tyler J. Wilson
TYLER J. WILSON

State of Iowa)
County of Linn)

On this 12th day of April, 2013, before me personally appeared TYLER J. WILSON 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: Dixie L. Dahl
My Commission Expires: April 11, 2015
Commission Number: 702681



ASSIGNMENT OF INVENTION

WHEREAS, Brian L. Aanderud, of Carver, County of Carver, and State of Minnesota, hereinafter sometimes referred to as "said inventor", has invented certain new and useful improvements in

DYNAMIC DIRECTIONALITY FOR MOBILE AD-HOC NETWORKS

which invention or inventions (hereinafter referred to as "inventions") have been disclosed to and filed, under Docket No. 13CR333, 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.

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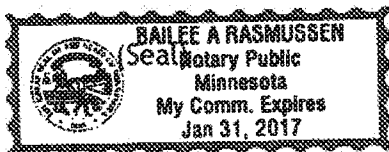
Executed at US Bank, County of Hennepin and State of Minnesota, this 12 day of April, 2013

[Handwritten signature]

BRIAN L. AANDERUD

State of Minnesota)
County of Hennepin)

On this 12 day of April, 2013 before me personally appeared BRIAN L. AANDERUD 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: *[Handwritten Signature]*
My Commission Expires: Jan 31, 2017
Commission Number: n/a

ASSIGNMENT OF INVENTION

WHEREAS, Scott C. Bjornsen, of Marion, County of Linn, and State of Iowa, hereinafter sometimes referred to as "said inventor", has invented certain new and useful improvements in

DYNAMIC DIRECTIONALITY FOR MOBILE AD-HOC NETWORKS

which invention or inventions (hereinafter referred to as "inventions") have been disclosed to and filed, under Docket No. 13CR333, 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.

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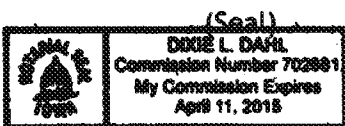
Executed at Cedar Rapids, County of Linn and State of Iowa, this 10 day of April, 2013.

Scott C Bjornsen
SCOTT C. BJORNSEN

State of IOWA)
County of LINN)

On this 10 day of APRIL, 2013, before me personally appeared SCOTT C. BJORNSEN 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: Dixie L. Dahl
My Commission Expires: April 11, 2015
Commission Number: 702681



ASSIGNMENT OF INVENTION

WHEREAS, Donald F. Hovda, 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

DYNAMIC DIRECTIONALITY FOR MOBILE AD-HOC NETWORKS

which invention or inventions (hereinafter referred to as "inventions") have been disclosed to and filed, under Docket No. 13CR333, 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.

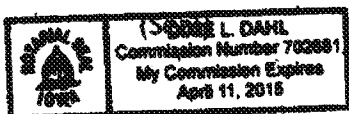
Executed at CEEDAR RAPIDS, County of LINN and State of IOWA, this 10 day of APRIL, 2013.

Donald F. Hovda
DONALD F. HOVDA

State of Iowa)
County of LINN)

On this 10 day of April, 2013, before me personally appeared DONALD F. HOVDA 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: Devin L. Dahl
My Commission Expires: April 11, 2015
Commission Number: 702681



PATENT