

## 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>Sarah A. Miller</td> <td>03/25/2013</td> </tr> <tr> <td>Ryan J. Coppa</td> <td>03/25/2013</td> </tr> <tr> <td>Robert J. Mourlam</td> <td>03/25/2013</td> </tr> <tr> <td>Christopher K. Ridgway</td> <td>03/25/2013</td> </tr> </tbody> </table>		Name	Execution Date	Sarah A. Miller	03/25/2013	Ryan J. Coppa	03/25/2013	Robert J. Mourlam	03/25/2013	Christopher K. Ridgway	03/25/2013
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Sarah A. Miller	03/25/2013										
Ryan J. Coppa	03/25/2013										
Robert J. Mourlam	03/25/2013										
Christopher K. Ridgway	03/25/2013										
RECEIVING PARTY DATA											
Name:	Rockwell Collins, Inc.										
Street Address:	400 Collins Rd NE										
Internal Address:	Attn: 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>13849647</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13849647						
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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:	13CR219										
NAME OF SUBMITTER:	Richard A. Kruse										

CH \$40.00 13849647

**Total Attachments: 4**

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ASSIGNMENT OF INVENTION

WHEREAS, Sarah A. Miller, 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

MOBILE USER OBJECTIVE SYSTEM GROUND BASE STATION  
EMULATION SYSTEM AND RELATED METHOD

which invention or inventions (hereinafter referred to as "inventions") have been disclosed to and filed, under Docket No. 13CR219, 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.

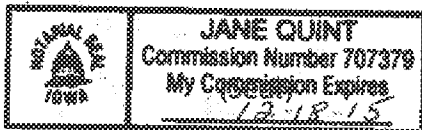
FURTHER, said inventor hereby agrees to sign all lawful papers necessary or helpful in obtaining patents, whether U.S. or foreign, on said invention or filing any divisional, continuation, substitution, or reissue application on said invention.

Executed at Rockwell Collins facility, County of Linn and State of Iowa, this 25<sup>th</sup> day of March, 2013.

Sarah A. Miller  
SARAH A. MILLER

State of Iowa )  
County of Linn )

On this 25<sup>th</sup> day of March, 2013, before me personally appeared SARAH A. MILLER 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: Jane Quint  
My Commission Expires: 12-18-15  
Commission Number: 707379

ASSIGNMENT OF INVENTION

WHEREAS, Ryan J. Coppa, 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

MOBILE USER OBJECTIVE SYSTEM GROUND BASE STATION  
EMULATION SYSTEM AND RELATED METHOD

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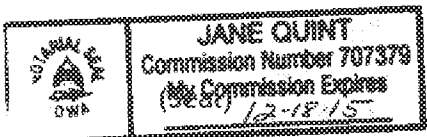
FURTHER, said inventor hereby agrees to sign all lawful papers necessary or helpful in obtaining patents, whether U.S. or foreign, on said invention or filing any divisional, continuation, substitution, or reissue application on said invention.

Executed at Rockwell Collins Facility, County of Linn and State of Iowa, this 25<sup>th</sup> day of March, 2013.

[Signature]  
RYAN J. COPPA

State of Iowa )  
County of Linn )

On this 25<sup>th</sup> day of March, 2013, before me personally appeared RYAN J. COPPA 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: [Signature]  
My Commission Expires: 12-18-15  
Commission Number: 707379

ASSIGNMENT OF INVENTION

WHEREAS, Robert J. Mourlam, 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

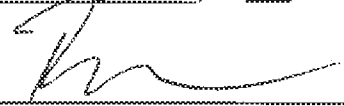
MOBILE USER OBJECTIVE SYSTEM GROUND BASE STATION  
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It is now agreed that, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the said inventor has sold, assigned and transferred and by these presents 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.

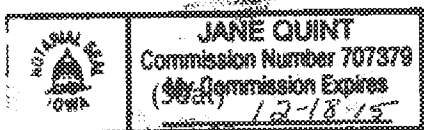
FURTHER, said inventor hereby agrees to sign all lawful papers necessary or helpful in obtaining patents, whether U.S. or foreign, on said invention or filing any divisional, continuation, substitution, or reissue application on said invention.

Executed at Rockwell Collins Facility, County of Bern and State of Iowa, this 25<sup>th</sup> day of March, 2013.

  
ROBERT J. MOURLAM

State of Iowa )  
County of Linn )

On this 25<sup>th</sup> day of March, 2013, before me personally appeared ROBERT J. MOURLAM 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: Jane Quint  
My Commission Expires: 12-18-15  
Commission Number: 707379

ASSIGNMENT OF INVENTION

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

MOBILE USER OBJECTIVE SYSTEM GROUND BASE STATION EMULATION SYSTEM AND RELATED METHOD

which invention or inventions (hereinafter referred to as "inventions") have been disclosed to and filed, under Docket No. 13CR219, 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.

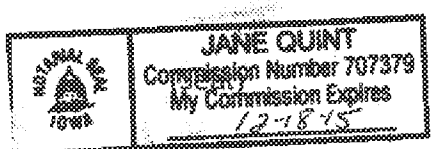
FURTHER, said inventor hereby agrees to sign all lawful papers necessary or helpful in obtaining patents, whether U.S. or foreign, on said invention or filing any divisional, continuation, substitution, or reissue application on said invention.

Executed at Rockwell Collins Facility, County of Linn and State of Iowa, this 25<sup>th</sup> day of March, 2013.

*Christopher K. Ridgway*  
Christopher K. RIDGWAY

State of Iowa )  
County of Linn )

On this 25<sup>th</sup> day of March, 2013, before me personally appeared CHRISTOPHER K. RIDGWAY 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: Jane Quint  
My Commission Expires: 12-18-15  
Commission Number: 707379