

# PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT												
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT												
<b>CONVEYING PARTY DATA</b>													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Jonathan P. Doane</td> <td>12/20/2010</td> </tr> <tr> <td>Dana J. Jensen</td> <td>12/17/2010</td> </tr> <tr> <td>Lee M. Paulsen</td> <td>12/20/2010</td> </tr> <tr> <td>James B. West</td> <td>12/20/2010</td> </tr> <tr> <td>Matilda G. Livadaru</td> <td>12/20/2010</td> </tr> </tbody> </table>		Name	Execution Date	Jonathan P. Doane	12/20/2010	Dana J. Jensen	12/17/2010	Lee M. Paulsen	12/20/2010	James B. West	12/20/2010	Matilda G. Livadaru	12/20/2010
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<b>RECEIVING PARTY DATA</b>													
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;"><b>Name:</b></td> <td>Rockwell Collins, Inc.</td> </tr> <tr> <td><b>Street Address:</b></td> <td>400 Collins Road NE</td> </tr> <tr> <td><b>Internal Address:</b></td> <td>Intellectual Property Dept, M/S 124-323</td> </tr> <tr> <td><b>City:</b></td> <td>Cedar Rapids</td> </tr> <tr> <td><b>State/Country:</b></td> <td>IOWA</td> </tr> <tr> <td><b>Postal Code:</b></td> <td>52498</td> </tr> </table>		<b>Name:</b>	Rockwell Collins, Inc.	<b>Street Address:</b>	400 Collins Road NE	<b>Internal Address:</b>	Intellectual Property Dept, M/S 124-323	<b>City:</b>	Cedar Rapids	<b>State/Country:</b>	IOWA	<b>Postal Code:</b>	52498
<b>Name:</b>	Rockwell Collins, Inc.												
<b>Street Address:</b>	400 Collins Road NE												
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<b>City:</b>	Cedar Rapids												
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<b>PROPERTY NUMBERS Total: 1</b>													
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<b>CORRESPONDENCE DATA</b>													
<p><b>Fax Number:</b> (319)295-8777</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p><b>Phone:</b> 319-295-8280</p> <p><b>Email:</b> skmathew@rockwellcollins.com</p> <p><b>Correspondent Name:</b> ROCKWELL COLLINS, INC. INTELLECTUAL PROP</p> <p><b>Address Line 1:</b> 400 COLLINS ROAD NE</p> <p><b>Address Line 2:</b> M/S 124-323</p> <p><b>Address Line 4:</b> CEDAR RAPIDS, IOWA 52498</p>													
<b>ATTORNEY DOCKET NUMBER:</b>	10CR418												

CH \$40.00 12974853

501386841

**PATENT**  
**REEL: 025534 FRAME: 0128**

NAME OF SUBMITTER:

Jeffrey M. Andersen

Total Attachments: 5

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**PATENT**

**REEL: 025534 FRAME: 0129**

ASSIGNMENT OF INVENTION

WHEREAS, Jonathan P. Doane, 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

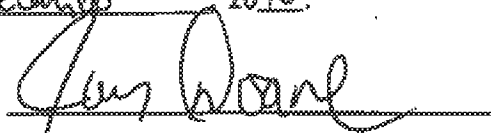
A STACKED PARASITIC ARRAY

which invention or inventions (hereinafter referred to as "inventions") have been disclosed to and filed, under Docket No. 10CR418, 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 Columbus, County of Franklin and State of Ohio, this 20 day of December, 2010.

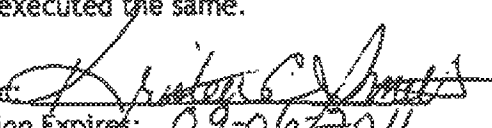
  
JONATHAN P. DOANE

State of Ohio )  
County of Franklin )

On this 20 day of December, 2010, before me personally appeared JONATHAN P. DOANE to me known to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same.



KRISTEEN C. SMITH  
Notary Public, State of Ohio  
My Commission Expires  
September 6, 2011

Notary Public:   
My Commission Expires: 09-06-2011  
Commission Number: \_\_\_\_\_

PATENT

REEL: 025534 FRAME: 0130

ASSIGNMENT OF INVENTION

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

A STACKED PARASITIC ARRAY

which invention or inventions (hereinafter referred to as "inventions") have been disclosed to and filed, under Docket No. 10CR418, 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.

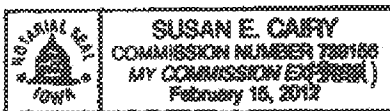
FURTHER, said inventor hereby agrees to sign all lawful papers necessary or helpful in obtaining patents, whether U.S. or foreign, on said invention or filing any divisional, continuation, substitution, or reissue application on said invention.

Executed at Cedar Rapids, County of Linn and State of IA, this 17 day of December, 2010.

Dana J. Jensen  
DANA J. JENSEN

State of Iowa )  
County of Linn )

On this 17<sup>th</sup> day of December, 2010, before me personally appeared DANA J. JENSEN 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: Susan E. Cairy  
My Commission Expires: 2-15-2012  
Commission Number: 739156

ASSIGNMENT OF INVENTION

WHEREAS, Lee M. Paulsen, 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

A STACKED PARASITIC ARRAY

which invention or inventions (hereinafter referred to as "inventions") have been disclosed to and filed, under Docket No. 10CR418, 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.

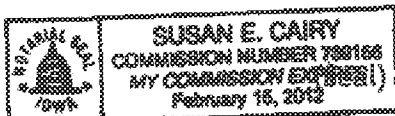
FURTHER, said inventor hereby agrees to sign all lawful papers necessary or helpful in obtaining patents, whether U.S. or foreign, on said invention or filing any divisional, continuation, substitution, or reissue application on said invention.

Executed at Cedar Rapids, County of Linn and State of Iowa, this 20 day of December, 2010.

Lee Paulsen  
LEE M. PAULSEN

State of Iowa )  
County of Linn )

On this 20<sup>th</sup> day of December, 2010 before me personally appeared LEE M. PAULSEN 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: Susan E. Cairry  
My Commission Expires: 2-16-2012  
Commission Number: 739156

# ASSIGNMENT OF INVENTION

WHEREAS, James B. West, 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

## A STACKED PARASITIC ARRAY

which invention or inventions (hereinafter referred to as "inventions") have been disclosed to and filed, under Docket No. 10CR418, 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.

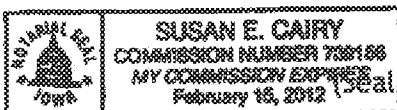
FURTHER, said inventor hereby agrees to sign all lawful papers necessary or helpful in obtaining patents, whether U.S. or foreign, on said invention or filing any divisional, continuation, substitution, or reissue application on said invention.

Executed at Cedar Rapids, County of Linn and State of Iowa, this 20 day of December, 2010.

James B. West  
JAMES B. WEST

State of Iowa )  
County of Linn )

On this 20<sup>th</sup> day of December, 2010, before me personally appeared JAMES B. WEST 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: Susan E. Cairry  
My Commission Expires: 2-15-2012  
Commission Number: 739156

ASSIGNMENT OF INVENTION

WHEREAS, Matilda G. Livadaru, of Marion, County of LINN, and State of Iowa, hereinafter sometimes referred to as "said inventor", has invented certain new and useful improvements in

A STACKED PARASITIC ARRAY

which invention or inventions (hereinafter referred to as "inventions") have been disclosed to and filed, under Docket No. 10CR418, 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 20 day of DECEMBER, 2010.

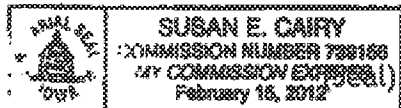
M. Livadaru

MATILDA G. LIVADARU

State of  
County of

Iowa  
Linn

On this 20 day of December, 2010, before me personally appeared MATILDA G. LIVADARU 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: Susan E. Cairy  
My Commission Expires: 2-15-2012  
Commission Number: 739156