

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>Kenneth A. Zimmerman</td> <td>09/22/2009</td> </tr> <tr> <td>Carlo L. Tiana</td> <td>09/20/2009</td> </tr> <tr> <td>Robert B. Wood</td> <td>09/29/2009</td> </tr> <tr> <td>Michael J. Oldham</td> <td>09/22/2009</td> </tr> <tr> <td>Robert A. Armstrong</td> <td>09/24/2009</td> </tr> </tbody> </table>		Name	Execution Date	Kenneth A. Zimmerman	09/22/2009	Carlo L. Tiana	09/20/2009	Robert B. Wood	09/29/2009	Michael J. Oldham	09/22/2009	Robert A. Armstrong	09/24/2009
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Carlo L. Tiana	09/20/2009												
Robert B. Wood	09/29/2009												
Michael J. Oldham	09/22/2009												
Robert A. Armstrong	09/24/2009												
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>12569999</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12569999								
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CORRESPONDENCE DATA													
Fax Number:	(319)295-8777												
<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:	07FD169												

CH \$40.00 12569999

500975822

**PATENT
 REEL: 023302 FRAME: 0866**

NAME OF SUBMITTER:

Tyson B. Benson

Total Attachments: 5

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ASSIGNMENT OF INVENTION

WHEREAS, Kenneth A. Zimmerman, of Sherwood, County of Clackamas and State of Oregon, hereinafter sometimes referred to as "said inventor", has invented certain new and useful improvements in

SYSTEM AND METHOD FOR MONITORING INACTIVE PIXELS IN A SCENE IMAGING SYSTEM which invention or inventions (hereinafter referred to as "inventions") have been disclosed to and filed, under Docket No. 07FD169, 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.

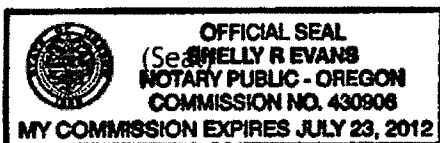
FURTHER, said inventor hereby agrees to sign all lawful papers necessary or helpful in obtaining patents, whether U.S. or foreign, on said invention or filing any divisional, continuation, substitution, or reissue application on said invention.

Executed at Rockwell Collins, County of Clackamas and State of Oregon, this 22 day of September, 2009.

Kenneth A. Zimmerman
KENNETH A. ZIMMERMAN

State of Oregon)
County of Clackamas)

On this 22 day of October, 2009, before me personally appeared KENNETH A. ZIMMERMAN 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: Shelly R. Evans
My Commission Expires: July 23, 2012
Commission Number: 430908

ASSIGNMENT OF INVENTION

WHEREAS, Carlo L. Tiana, of Portland, OR, County of Multnomah, and State of Oregon, hereinafter sometimes referred to as "said inventor", has invented certain new and useful improvements in

SYSTEM AND METHOD FOR MONITORING INACTIVE PIXELS IN A SCENE IMAGING SYSTEM which invention or inventions (hereinafter referred to as "inventions") have been disclosed to and filed, under Docket No. 07FD169, 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 Portland, OR, County of Multnomah and State of Oregon, this 20th day of September, 2009.



CARLO L. TIANA

State of Oregon)
County of Multnomah)

On this ____ day of _____, 20__, before me personally appeared CARLO L. TIANA 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)

Notary Public: _____
My Commission Expires: _____
Commission Number: _____

ASSIGNMENT OF INVENTION

WHEREAS, Robert B. Wood, of Beaverton, County of Washington, and State of Oregon, hereinafter sometimes referred to as "said inventor", has invented certain new and useful improvements in

SYSTEM AND METHOD FOR MONITORING INACTIVE PIXELS IN A SCENE IMAGING SYSTEM which invention or inventions (hereinafter referred to as "inventions") have been disclosed to and filed, under Docket No. 07FD169, 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.

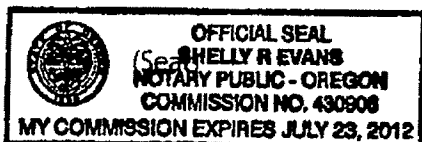
Executed at Rockwell Collins K6S, County of Clackamas and State of Oregon, this 29 day of September, 2009.

Robert B. Wood

ROBERT B. WOOD

State of Oregon)
County of Clackamas)

On this 29 day of September, 2009, before me personally appeared ROBERT B. WOOD 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: Shelly R. Evans
My Commission Expires: July 23, 2012
Commission Number: 430908

ASSIGNMENT OF INVENTION

WHEREAS, Michael J. Oldham, of WOODBURN, County of MARION, and State of OREGON, hereinafter sometimes referred to as "said inventor", has invented certain new and useful improvements in

SYSTEM AND METHOD FOR MONITORING INACTIVE PIXELS IN A SCENE IMAGING SYSTEM which invention or inventions (hereinafter referred to as "inventions") have been disclosed to and filed, under Docket No. 07FD169, 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.

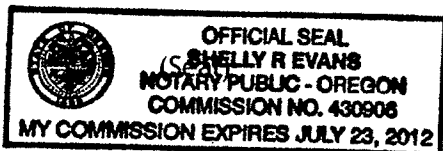
FURTHER, said inventor hereby agrees to sign all lawful papers necessary or helpful in obtaining patents, whether U.S. or foreign, on said invention or filing any divisional, continuation, substitution, or reissue application on said invention.

Executed at Rockwell Collins, County of Clackamas and State of Oregon, this 22 day of September, 2009.

[Signature]
MICHAEL J. OLDHAM

State of Oregon)
County of Clackamas)

On this 22 day of September, 2009 before me personally appeared MICHAEL J. OLDHAM 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: July 23, 2012
Commission Number: 430908

ASSIGNMENT OF INVENTION

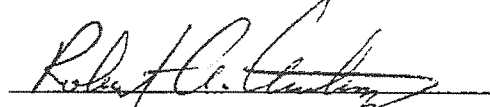
WHEREAS, Robert A. Armstrong, of Canby, County of Clackamas, and State of Oregon, hereinafter sometimes referred to as "said inventor", has invented certain new and useful improvements in

SYSTEM AND METHOD FOR MONITORING INACTIVE PIXELS IN A SCENE IMAGING SYSTEM which invention or inventions (hereinafter referred to as "inventions") have been disclosed to and filed, under Docket No. 07FD169, 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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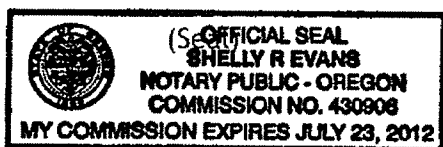
FURTHER, said inventor hereby agrees to sign all lawful papers necessary or helpful in obtaining patents, whether U.S. or foreign, on said invention or filing any divisional, continuation, substitution, or reissue application on said invention.

Executed at Wilsonville, County of Clackamas and State of Oregon, this 24th day of September, 2009.


ROBERT A. ARMSTRONG

State of Oregon)
County of Clackamas)

On this 24th day of September, 2009, before me personally appeared ROBERT A. ARMSTRONG 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: Shelly R. Evans
My Commission Expires: July 23, 2010
Commission Number: 430906