

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>Michael J. Buckley</td><td>04/19/2010</td></tr><tr><td>Brian J. Herting</td><td>04/19/2010</td></tr><tr><td>John C. Mather</td><td>04/19/2010</td></tr><tr><td>Wajih A. ElSallal</td><td>04/19/2010</td></tr></tbody></table>   |  | Name          | Execution Date         | Michael J. Buckley  | 04/19/2010          | Brian J. Herting  | 04/19/2010                               | John C. Mather | 04/19/2010   | Wajih A. ElSallal | 04/19/2010 |              |       |
| Name   | Execution Date                           |               |                        |                     |                     |                   |  |                |              |                   |            |              |       |
| Michael J. Buckley   | 04/19/2010                               |               |                        |                     |                     |                   |  |                |              |                   |            |              |       |
| Brian J. Herting   | 04/19/2010                               |               |                        |                     |                     |                   |  |                |              |                   |            |              |       |
| John C. Mather   | 04/19/2010                               |               |                        |                     |                     |                   |  |                |              |                   |            |              |       |
| Wajih A. ElSallal  | 04/19/2010                               |               |                        |                     |                     |                   |  |                |              |                   |            |              |       |
| RECEIVING PARTY DATA   |  |               |                        |                     |                     |                   |  |                |              |                   |            |              |       |
| <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 |
| 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>12764338</td></tr></tbody></table>   |  | Property Type | Number                 | Application Number: | 12764338            |                   |  |                |              |                   |            |              |       |
| Property Type  | Number                                   |               |                        |                     |                     |                   |  |                |              |                   |            |              |       |
| Application Number:  | 12764338                                 |               |                        |                     |                     |                   |  |                |              |                   |            |              |       |
| CORRESPONDENCE DATA  |  |               |                        |                     |                     |                   |  |                |              |                   |            |              |       |
| Fax Number: (319)295-8777<br><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.   |  |               |                        |                     |                     |                   |  |                |              |                   |            |              |       |
| Address Line 1: 400 Collins Road NE  |  |               |                        |                     |                     |                   |  |                |              |                   |            |              |       |
| Address Line 2: Intellectual Property Dept., M/S 124-323   |  |               |                        |                     |                     |                   |  |                |              |                   |            |              |       |
| Address Line 4: Cedar Rapids, IOWA 52498   |  |               |                        |                     |                     |                   |  |                |              |                   |            |              |       |
| ATTORNEY DOCKET NUMBER:  | 10CR099                                  |               |                        |                     |                     |                   |  |                |              |                   |            |              |       |
| NAME OF SUBMITTER:   | Jeffrey M. Andersen                      |               |                        |                     |                     |                   |  |                |              |                   |            |              |       |

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PATENT  
REEL: 024265 FRAME: 0502

Total Attachments: 4

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# ASSIGNMENT OF INVENTION

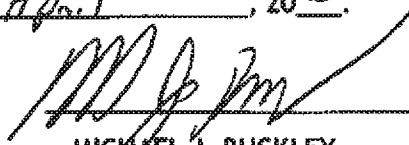
WHEREAS, Michael J. Buckley, of Marion, County of Linn, and State of Iowa, hereinafter sometimes referred to as "said inventor", has invented certain new and useful improvements in

DUAL-POLARIZED ENVIRONMENTALLY-HARDENED LOW PROFILE RADIATING ELEMENT which invention or inventions (hereinafter referred to as "inventions") have been disclosed to and filed, under Docket No. 10CR099, 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.

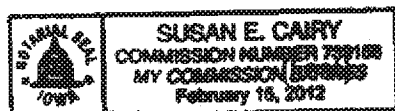
FURTHER, said inventor hereby agrees to sign all lawful papers necessary or helpful in obtaining patents, whether U.S. or foreign, on said invention or filing any divisional, continuation, substitution, or reissue application on said invention.

Executed at Cedar Rapids, County of Linn and State of Iowa, this 17 day of April, 2010.

  
MICHAEL J. BUCKLEY

State of Iowa  
County of Linn

On this 17 day of April, 2010, before me personally appeared MICHAEL J. BUCKLEY 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: 2-18-2012  
Commission Number: 799188

ASSIGNMENT OF INVENTION

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

DUAL-POLARIZED ENVIRONMENTALLY-HARDENED LOW PROFILE RADIATING ELEMENT which invention or inventions (hereinafter referred to as "inventions") have been disclosed to and filed, under Docket No. 10CR099, 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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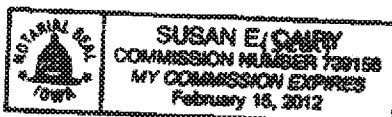
FURTHER, said inventor hereby agrees to sign all lawful papers necessary or helpful in obtaining patents, whether U.S. or foreign, on said invention or filing any divisional, continuation, substitution, or reissue application on said invention.

Executed at Cedar Rapids, County of Linn and State of Iowa, this 19 day of April, 2010.

Brian J. Herting  
BRIAN J. HERTING

State of Iowa )  
County of Linn )

On this 19 day of April, 2010, before me personally appeared BRIAN J. HERTING 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: 739158

ASSIGNMENT OF INVENTION

WHEREAS, John C. Mather, 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

DUAL-POLARIZED ENVIRONMENTALLY-HARDENED LOW PROFILE RADIATING ELEMENT which invention or inventions (hereinafter referred to as "inventions") have been disclosed to and filed, under Docket No. 10CR099, 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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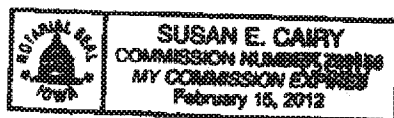
FURTHER, said inventor hereby agrees to sign all lawful papers necessary or helpful in obtaining patents, whether U.S. or foreign, on said invention or filing any divisional, continuation, substitution, or reissue application on said invention.

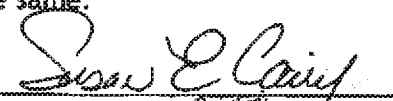
Executed at Cedar Rapids, County of Linn and State of Iowa, this 19 day of April, 2010.

  
JOHN C. MATHER

State of Iowa )  
County of Linn )

On this 19 day of April, 2010, before me personally appeared JOHN C. MATHER 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: 2-15-2012  
Commission Number: 739156

ASSIGNMENT OF INVENTION

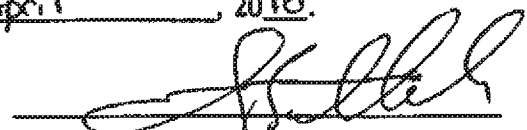
WHEREAS, Wajih A. Elsallal, of Cedar Rapids, County of Linn, and State of Iowa, hereinafter sometimes referred to as "said inventor", has invented certain new and useful improvements in

DUAL-POLARIZED ENVIRONMENTALLY-HARDENED LOW PROFILE RADIATING ELEMENT which invention or inventions (hereinafter referred to as "inventions") have been disclosed to and filed, under Docket No. 10CR099, 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.

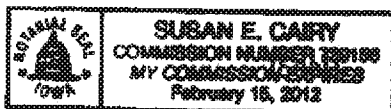
FURTHER, said inventor hereby agrees to sign all lawful papers necessary or helpful in obtaining patents, whether U.S. or foreign, on said invention or filing any divisional, continuation, substitution, or reissue application on said invention.

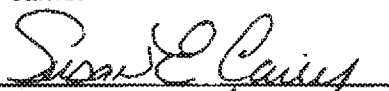
Executed at Cedar Rapids, County of Linn and State of Iowa, this 19 day of April, 2010.

  
WAJIH A. ELSALLAL

State of Iowa )  
County of Linn )

On this 19<sup>th</sup> day of April, 2010, before me personally appeared WAJIH A. ELSALLAL 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: 2-15-2012  
Commission Number: 739156