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FORM PTO-1595

1-31-92

RECORDATION FORM COVER SHEET

Patent and Trademark Office

Docket No. 09CR056

**PATENTS ONLY**

1. Name of conveying party(ies):

Peter J. Morgan  
Raymond Zaroni  
Daniel E. Mazuk  
Alistair J. Price

2. Name and address of receiving party(ies):

Rockwell Collins, Inc.  
400 Collins Road NE  
M/S 124-323  
Cedar Rapids, IA 52498

Additional name(s) of conveying party(ies) attached?

☐ YES ☒ NO

Additional name(s) and Address(es) attached:?

☐ YES ☒ NO

3. Nature of conveyance:

☒ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☐ Other \_\_\_\_\_

Execution Date: February 11, 2009; February 11, 2009; February 10, 2009; February 11, 2009

4. Application number(s) or patent number(s):

Serial N°

Filed: February 12, 2009

Express Mail Label N°: EM 260723196 US

If this document is being filed together with a new application, the execution date of the application is: February 12, 2009.

**A. Patent Application No.(s)**

**B. Patent No.(s)**

Additional numbers attached: ☐ YES ☒ NO

5. Name and address of party to whom  
correspondence concerning document should be  
mailed:

**Customer No. 26383**

Rockwell Collins, Inc.

Nathan O. Jensen  
400 Collins Road, NE  
M/S 124-323

Cedar Rapids, IA 52498

6. Total number of applications and patents  
involved: **ONE**

7. Total fee (37 CFR 3.41)

**\$ 40.00**

☒ The Commissioner is hereby authorized to charge  
the recordation fee to deposit account 19-4882.  
(Attach duplicate copy of this page if paying by deposit account).

**DO NOT USE THIS SPACE**

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached  
copy is a true copy of the original document.

Jeffrey M. Andersen Reg. No. 52558

DATE: February 12, 2009

Total number of pages including cover sheet: ONE (1)

**PATENT**

**REEL: 022307 FRAME: 0028**

# ASSIGNMENT OF INVENTION

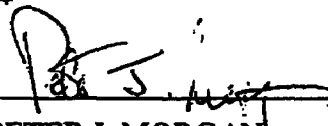
WHEREAS, Peter J. Morgan, of Glenelg, County of HOWARD, and State of Maryland, hereinafter sometimes referred to as "said inventor", has invented certain new and useful improvements in **SYSTEM AND METHOD FOR PROVIDING CASCADED OPTICAL LINE TERMINALS (OLTs) IN PASSIVE OPTICAL NETWORKS (PONs)**

which invention or inventions (hereinafter referred to as "inventions") have been disclosed to and filed, under Docket No. 09CR056, 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.

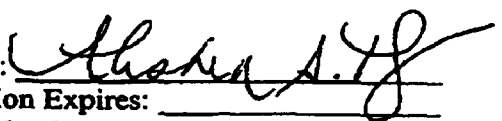
Executed at COLUMBIA, County of HOWARD and State of MARYLAND, this 11<sup>th</sup> day of FEBRUARY, 2009.

  
PETER J. MORGAN

State of MD,  
City County of BALTO

On this 11<sup>th</sup> day of February, 2009, before me personally appeared PETER J. MORGAN 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: \_\_\_\_\_

ALISHIA A. TAYLOR  
NOTARY PUBLIC  
BALTIMORE CITY  
MARYLAND  
PATENT

# ASSIGNMENT OF INVENTION

WHEREAS, Raymond Zaroni, of Columbia, County of Howard, and State of Maryland, hereinafter sometimes referred to as "said inventor", has invented certain new and useful improvements in SYSTEM AND METHOD FOR PROVIDING CASCADED OPTICAL LINE TERMINALS (OLTs) IN PASSIVE OPTICAL NETWORKS (PONs)

which invention or inventions (hereinafter referred to as "inventions") have been disclosed to and filed, under Docket No. 09CR056 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 Columbia, County of Howard and State of Maryland, this 11<sup>th</sup> day of February, 2009.

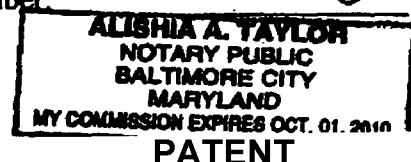
  
RAYMOND ZANONI

State of Maryland  
County of Howard

On this 11<sup>th</sup> day of February, 2009, before me personally appeared RAYMOND ZANONI 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: \_\_\_\_\_



PATENT  
REEL: 022307 FRAME: 0030

## ASSIGNMENT OF INVENTION

WHEREAS, Daniel E. Mazuk, of Marion, County of Linn, and State of Iowa, hereinafter sometimes referred to as "said inventor", has invented certain new and useful improvements in  
**SYSTEM AND METHOD FOR PROVIDING CASCADED OPTICAL LINE TERMINALS (OLTs) IN  
 PASSIVE OPTICAL NETWORKS (PONs)**

which invention or inventions (hereinafter referred to as "inventions") have been disclosed to and filed, under Docket No. 09CR056, 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.

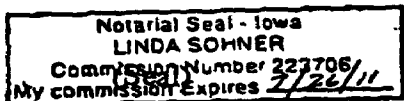
FURTHER, said inventor hereby agrees to sign all lawful papers necessary or helpful in obtaining patents, whether U.S. or foreign, on said invention or filing any divisional, continuation, substitution, or reissue application on said invention.

Executed at Cedar Rapids, County of Linn and State of Iowa, this 10 day of February, 2009

  
 DANIEL E. MAZUK

State of Iowa )  
 County of Linn )

On this 10 day of February, 2009, before me personally appeared DANIEL E. MAZUK 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: Linda Sohner  
 My Commission Expires: July 26/2011  
 Commission Number: 223706

# ASSIGNMENT OF INVENTION

WHEREAS, Alistair J. Price of Ellicott City, County of Howard, and State of Maryland, hereinafter sometimes referred to as "said inventor", has invented certain new and useful improvements in SYSTEM AND METHOD FOR PROVIDING CASCADED OPTICAL LINE TERMINALS (OLTs) IN PASSIVE OPTICAL NETWORKS (PONs)

which invention or inventions (hereinafter referred to as "inventions") have been disclosed to and filed, under Docket No. 09CR056, 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 Columbia, County of Howard and State of Maryland, this 11 day of February, 2009.

Alistair J. Price  
ALISTAIR J. PRICE

State of MD )  
City/County of Balto )

On this 11<sup>th</sup> day of February, 2009, before me personally appeared ALISTAIR J. PRICE 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: Alisha A. Taylor  
My Commission Expires: \_\_\_\_\_  
Commission Number: \_\_\_\_\_  

ALISHA A. TAYLOR NOTARY PUBLIC BALTIMORE CITY MARYLAND MY COMMISSION EXPIRES OCT. 01, 2010
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