

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>Raymond Zaroni</td> <td>10/02/2009</td> </tr> <tr> <td>Alistair J. Price</td> <td>11/04/2009</td> </tr> <tr> <td>Peter J. Morgan</td> <td>10/02/2009</td> </tr> <tr> <td>Phillip R. Koenig</td> <td>01/05/2010</td> </tr> </tbody> </table>		Name	Execution Date	Raymond Zaroni	10/02/2009	Alistair J. Price	11/04/2009	Peter J. Morgan	10/02/2009	Phillip R. Koenig	01/05/2010
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Raymond Zaroni	10/02/2009										
Alistair J. Price	11/04/2009										
Peter J. Morgan	10/02/2009										
Phillip R. Koenig	01/05/2010										
RECEIVING PARTY DATA											
Name:	Rockwell Collins, Inc.										
Street Address:	400 Collins Road NE										
Internal Address:	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>13569063</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13569063						
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Application Number:	13569063										
CORRESPONDENCE DATA											
Fax Number:	3192958777										
Phone:	319-295-1184										
Email:	skmathew@rockwellcollins.com, cfitzsimmons@foley.com										
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>											
Correspondent Name:	Rockwell Collins Intellectual Property										
Address Line 1:	400 Collins Road NE										
Address Line 2:	M/S 124-323										
Address Line 4:	Cedar Rapids, IOWA 52498										
ATTORNEY DOCKET NUMBER:	09CR472C (047141-0868)										
NAME OF SUBMITTER:	Joseph N. Ziebert										

OP \$40.00 13569063

Total Attachments: 6

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ASSIGNMENT - WORLDWIDE

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor (hereinafter referred to singly and collectively as "ASSIGNOR") has sold, assigned, and transferred, and by these presents hereby sells, assigns, and transfers, unto

ROCKWELL COLLINS, INC.
400 Collins Road NE
M/S 124-323
Cedar Rapids, Iowa 52498

(hereinafter referred to as "ASSIGNEE") its successors and assigns, the full and exclusive right, title and interest for the United States, its territories and possessions, and all foreign countries in and to this invention relating to

PHOTONIC ANALOG TO DIGITAL CONVERSION

as set forth in this United States Patent Application

check one executed concurrently herewith,
 executed on _____,
 Serial No. 12/571,232 Filed September 30, 2009

as well as in and to (a) all improvements and modifications of the above-identified invention or inventions, (b) the above-identified application and all other applications for Letters Patent of the United States and countries foreign thereto for above-identified invention or inventions and all improvements and modifications thereof, (c) all Letters Patent which may issue from said applications in the United States and countries foreign thereto, (d) all divisions, continuations, reissues, and extensions of said applications and Letters Patent, and (e) the right to claim for any of said applications the full benefits and priority rights under the International Convention and any other international agreement to which the United States adheres; such right, title, and interest to be held and enjoyed by ASSIGNEE, its successors and assigns, to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by ASSIGNOR had this Assignment not been made.

ASSIGNOR HEREBY AUTHORIZES ASSIGNEE to file patent applications in any or all countries on the above-identified invention or inventions in the name of the undersigned or in the name of ASSIGNEE or otherwise as ASSIGNEE may deem advisable under the International Convention or otherwise.

ASSIGNOR HEREBY AUTHORIZES AND REQUESTS the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE as assignee of the entire interest, for the sole use and benefit of ASSIGNEE, its successors and assigns.


ASSIGNOR HEREBY AGREES (a) to communicate to ASSIGNEE, its successors and assigns, or their representative or agents, all facts and information known or available to ASSIGNOR respecting said invention or inventions, improvements, and modifications including evidence for interference, reexamination, reissue, opposition, revocation, extension, or infringement purposes or other legal, judicial, or administrative proceedings, whenever requested by ASSIGNEE; (b) to testify in person or by affidavit as required by ASSIGNEE, its successors and assigns, in any such proceeding in the United States or a country foreign thereto; (c) to execute and deliver, upon request by ASSIGNEE, all lawful papers including, but not limited to, original, divisional, continuation, and reissue applications, renewals, assignments, powers of attorney, oaths, affidavits, and declarations, depositions; and (d) to provide all reasonable assistance to ASSIGNEE, its successors and assigns, in obtaining and enforcing proper title in and protection for said invention or inventions, improvements, and modifications under the intellectual property laws of the United States and countries foreign thereto.

ASSIGNOR HEREBY REPRESENTS AND WARRANTS that ASSIGNOR has the full and unencumbered right to sell, assign, and transfer the interests sold, assigned, and transferred herein, and that ASSIGNOR has not executed and will not execute any document or instrument in conflict herewith.

ASSIGNOR HEREBY GRANTS to the law firm of **Foley & Lardner LLP** the power and authority to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

ASSIGNOR UNDERSTANDS AND AGREES that the attorneys and agents of the law firm of **Foley & Lardner LLP** do not personally represent ASSIGNOR OR ASSIGNOR's legal interests, but instead represent the interests of ASSIGNEE; since said attorneys and agents cannot provide legal advice to ASSIGNOR with respect to this Assignment, ASSIGNOR acknowledges its right to seek its own independent legal counsel.

Executed this 2nd day of October, 2009


RAYMOND ZANONI

State of Maryland
County of Howard

On this 2nd day of Oct, 2009, before me, Shaikh Ali (a notary public in and for said county), personally appeared RAYMOND ZANONI, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature 

My Commission Expires: SHAIKH SOHAIL ALI
NOTARY PUBLIC STATE OF MARYLAND
My Commission Expires September 18, 2011

(Seal)

Executed this _____ day of _____, 20____.

ALISTAIR J. PRICE

State of _____)
County of _____)

On this _____ day of _____, 20____, before me, _____ (a notary public in and for said county), personally appeared ALISTAIR J. PRICE, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature _____

My Commission Expires: _____

(Seal)

Executed this _____ day of _____, 20__.

RAYMOND ZANONI

State of _____)

County of _____)

On this _____ day of _____, 20__, before me, _____ (a notary public in and for said county), personally appeared RAYMOND ZANONI, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature _____

My Commission Expires: _____

(Seal)

Executed this 7th day of November, 2009.

A. Price

ALISTAIR J. PRICE

State of MD)

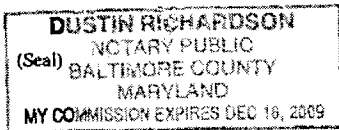
County of Hawkes)

On this 4th day of November, 2009, before me, Dustin Richardson (a notary public in and for said county), personally appeared ALISTAIR J. PRICE, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature *[Signature]*

My Commission Expires: _____



Executed this 2nd day of October, 2009

Peter J. Morgan
PETER J. MORGAN

State of Maryland)

County of Howard)

On this 02 day of OCT, 2009, before me, SHAIKH ALI (a notary public in and for said county), personally appeared PETER J. MORGAN, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature ShaiKH ALI

My Commission Expires: **SHAIKH BOHAIL ALI**
NOTARY PUBLIC STATE OF MARYLAND
My Commission Expires September 18, 2011

(Seal)

Executed this _____ day of _____, 20____.

PHILLIP R. KOENIG

State of _____)

County of _____)

On this _____ day of _____, 20____, before me, _____ (a notary public in and for said county), personally appeared PHILLIP R. KOENIG, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature _____

My Commission Expires: _____

(Seal)

Executed this _____ day of _____, 20__.

PETER J. MORGAN

State of _____)

County of _____)

On this _____ day of _____, 20____, before me, _____ (a notary public in and for said county), personally appeared PETER J. MORGAN, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature _____

My Commission Expires: _____

(Seal)

Executed this 5 day of January, 2010.

Phillip R. Koenig

PHILLIP R. KOENIG

State of Illinois)

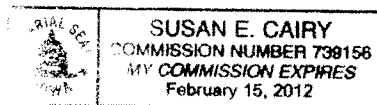
County of DeWitt)

On this 5 day of January, 2010, before me, Susan E. Cairy (a notary public in and for said county), personally appeared PHILLIP R. KOENIG, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature Susan E. Cairy

My Commission Expires: 2-15-2012



(Seal)