

PATENT ASSIGNMENT

Electronic Version v1.1

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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>Thomas L. Tapp</td><td>01/11/2005</td></tr><tr><td>Richard A. Groshong</td><td>01/11/2005</td></tr></tbody></table>	Name	Execution Date	Thomas L. Tapp	01/11/2005	Richard A. Groshong	01/11/2005	
Name	Execution Date						
Thomas L. Tapp	01/11/2005						
Richard A. Groshong	01/11/2005						
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>11782529</td></tr></tbody></table>	Property Type	Number	Application Number:	11782529			
Property Type	Number						
Application Number:	11782529						
CORRESPONDENCE DATA							
Fax Number: (414)297-4900 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>							
Phone: 414-271-2400							
Email: PTOMailMilwaukee@foley.com							
Correspondent Name: Foley & Lardner LLP							
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Address Line 4: Milwaukee, WISCONSIN 53202-5306							
ATTORNEY DOCKET NUMBER:	047141-0527						
NAME OF SUBMITTER:	Joseph N. Ziebert						
Total Attachments: 3 source=47141-527 Assignment#page1.tif source=47141-527 Assignment#page2.tif							

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PATENT
REEL: 019619 FRAME: 0076

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, IA 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

DIVERSITY CODE COMBINING SCHEME FOR TURBO CODED SYSTEMS

as set forth in this United States Patent Application

check one ☐ executed concurrently herewith,
 ☐ executed on _____,
 ☒ Serial No. 10/957,086 Filed 10/1/2004

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.

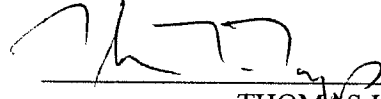
ASSIGNOR HEREBY AGREES (a) to communicate to ASSIGNEE, its successors and assigns, or their representative or agents, all facts and information known or available to ASSIGNOR respecting said invention or inventions, improvements, and modifications including evidence for interference, reexamination, reissue, 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.

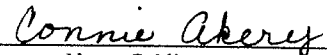
Executed this 11th day of JANUARY, 2005.



THOMAS L. TAPP

State of Iowa)
County of Linn)ss.

On this 11th day of January, 2005, before me, a notary public in and for said county, appeared THOMAS L. TAPP, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and he/she acknowledged that he/she signed, sealed, and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.

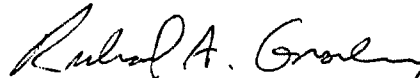

Notary Public

My Commission Expires: 3/16/07

(Seal)

3/16/07

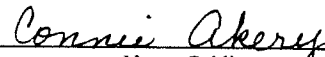
Executed this 11 day of JANUARY, 2005.



RICHARD A. GROSHONG

State of Iowa)
County of Linn)ss.

On this 11th day of January, 2005, before me, a notary public in and for said county, appeared RICHARD A. GROSHONG, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and he/she acknowledged that he/she signed, sealed, and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.


Notary Public

My Commission Expires: 3/16/07

(Seal)

3/16/07