

## 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>Geoffrey A. Shapiro</td> <td>09/24/2013</td> </tr> <tr> <td>David L. Leedom</td> <td>09/24/2013</td> </tr> <tr> <td>Nicholas M. Lorch</td> <td>09/26/2013</td> </tr> </tbody> </table>		Name	Execution Date	Geoffrey A. Shapiro	09/24/2013	David L. Leedom	09/24/2013	Nicholas M. Lorch	09/26/2013				
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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
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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>14038249</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14038249								
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CORRESPONDENCE DATA													
<p>Fax Number: 3192958777  <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 319-295-8280        Email: skmathew@rockwellcollins.com</p> <p>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</p>													
ATTORNEY DOCKET NUMBER:	13CR544												
NAME OF SUBMITTER:	Shane R. Thielen												
Signature:	/shane r thielen/												

PATENT

Date:

09/26/2013

Total Attachments: 3

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ASSIGNMENT OF INVENTION

WHEREAS, Geoffrey A. Shapiro, 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

NATURAL VOICE SPEECH RECOGNITION FOR FLIGHT DECK APPLICATIONS

which invention or inventions (hereinafter referred to as "inventions") have been disclosed to and filed, under Docket No. 13CR544, 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.

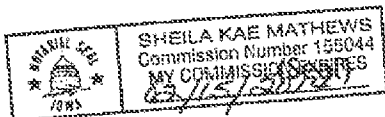
FURTHER, said inventor hereby agrees to sign all lawful papers necessary or helpful in obtaining patents, whether U.S. or foreign, on said invention or filing any divisional, continuation, substitution, or reissue application on said invention.

Executed at CEAR RAPIDS, County of LINN and State of Iowa, this 24<sup>th</sup> day of September, 2013.

[Signature]  
GEOFFREY A. SHAPIRO

State of Iowa  
County of LINN

On this 24<sup>th</sup> day of September, 2013, before me personally appeared GEOFFREY A. SHAPIRO 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: 03/15/2014

Commission Number: 155044

PATENT

REEL: 031291 FRAME: 0833

ASSIGNMENT OF INVENTION

WHEREAS, David L. Leedom, of Center Point, County of WINN, and State of Iowa, hereinafter sometimes referred to as "said inventor", has invented certain new and useful improvements in

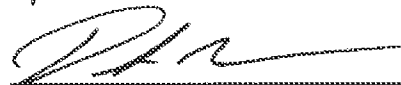
NATURAL VOICE SPEECH RECOGNITION FOR FLIGHT DECK APPLICATIONS

which invention or inventions (hereinafter referred to as "inventions") have been disclosed to and filed, under Docket No. 13CR544, 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.

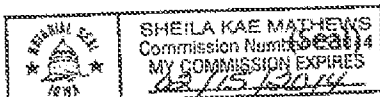
Executed at Center Point, County of WINN and State of Iowa, this 24<sup>th</sup> day of September, 2013



DAVID L. LEEDOM

State of Iowa )  
County of WINN )

On this 24<sup>th</sup> day of September, 2013, before me personally appeared DAVID L. LEEDOM 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: Sheila Kae Mathews  
My Commission Expires: 02/15/2014  
Commission Number: 155044

ASSIGNMENT OF INVENTION

WHEREAS, Nicholas M. Lorch, of North Liberty, County of Johnson, and State of Iowa, hereinafter sometimes referred to as "said inventor", has invented certain new and useful improvements in

NATURAL VOICE SPEECH RECOGNITION FOR FLIGHT DECK APPLICATIONS

which invention or inventions (hereinafter referred to as "inventions") have been disclosed to and filed, under Docket No. 13CR544, 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 CEAR RAPIDS, County of Linn and State of Iowa, this 26<sup>th</sup> day of September, 2013.



NICHOLAS M. LORCH

State of  
County of

Iowa  
Linn )

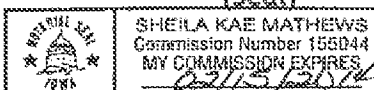
On this 26<sup>th</sup> day of September, 2013, before me personally appeared NICHOLAS M. LORCH to me known to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same.

Notary Public:

My Commission Expires:

Commission Number:

Sheila Kae Mathews  
12/15/2014  
155044



PATENT