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| PATENT ASSIGNMENT COVER SHEET |
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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| DONALD J. WHALEN | 01/28/2015 |
| BRAD A. WALKER | 01/29/2015 |
| SCOTT E. SCHULTZ | 01/26/2015 |
| RONALD E. HEBERLEIN | 01/23/2015 |
| DAVID I. HAN | 01/23/2015 |
| RECEIVING PARTY DATA | |
| Name: | ROCKWELL COLLINS, INC. |
| Street Address: | 400 COLLINS ROAD NE |
| Internal Address: | ATTN: INTELLECTUAL PROPERTY DEPT, M/S 124-323 |
| City: | CEDAR RAPIDS |
| State/Country: | IOWA |
| Postal Code: | 52498 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 14609651 |
| CORRESPONDENCE DATA | |
| Fax Number: | (319)295-8777 |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i> | |
| Phone: | 319-295-1184 |
| Email: | sheila.mathews@rockwellcollins.com |
| 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 |
| ATTORNEY DOCKET NUMBER: | 14CR817 |
| NAME OF SUBMITTER: | ERIC M. NEWHOUSE |
| SIGNATURE: | /eric m newhouse/ |
| DATE SIGNED: | 01/30/2015 |

Total Attachments: 5

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ASSIGNMENT OF INVENTION

WHEREAS, Donald J. Whalen, 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

SENSOR-BASED NAVIGATION CORRECTION

which invention or inventions (hereinafter referred to as "inventions") have been disclosed to and filed, under Docket No. 14CR817, 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.

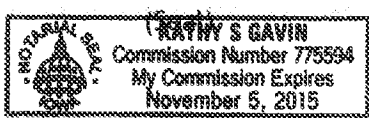
Executed at Cedar Rapids, County of Linn and State of Iowa, this 28 day of January, 2015.

Donald J. Whalen
Donald J. Whalen

State of Iowa)
County of Linn)

On this 28 day of January, 2015, before me personally appeared Donald J. Whalen 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: Kathy Gavin
My Commission Expires: Nov. 5, 2015
Commission Number: 775594



ASSIGNMENT OF INVENTION

WHEREAS, Brad A. Walker, of Mount Vernon, County of Linn, and State of Iowa, hereinafter sometimes referred to as "said inventor", has invented certain new and useful improvements in

SENSOR-BASED NAVIGATION CORRECTION

which invention or inventions (hereinafter referred to as "inventions") have been disclosed to and filed, under Docket No. 14CR817, 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 Rockwell Collins, County of Linn and State of Iowa, this 29 day of January, 2015.

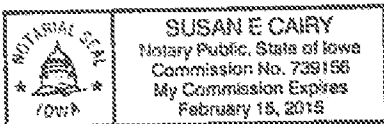
Brad A Walker
Brad A. Walker

State of Iowa)
County of Linn)

On this 29 day of January, 2015, before me personally appeared Brad A. Walker 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: 2-15-2015
Commission Number: 739150

(Seal)



ASSIGNMENT OF INVENTION

WHEREAS, Scott E. Schultz, 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

SENSOR-BASED NAVIGATION CORRECTION

which invention or inventions (hereinafter referred to as "inventions") have been disclosed to and filed, under Docket No. 14CR817, 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.

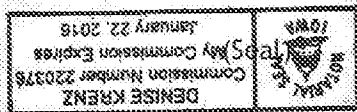
Executed at Cedar Rapids, County of Linn and State of Iowa, this 26 day of January, 2015.

Scott E. Schultz

Scott E. Schultz

State of Iowa)
County of Linn)

On this 26th day of January, 2015, before me personally appeared Scott E. Schultz 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: Denise Krenz
My Commission Expires: 1-22-18
Commission Number: 220376

ASSIGNMENT OF INVENTION

WHEREAS, Ronald E. Heberlein, of Wilsonville, County of clackamas, and State of Oregon, hereinafter sometimes referred to as "said inventor", has invented certain new and useful improvements in

SENSOR-BASED NAVIGATION CORRECTION

which invention or inventions (hereinafter referred to as "inventions") have been disclosed to and filed, under Docket No. 14CR817, 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.

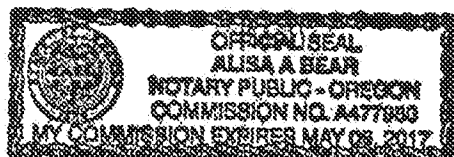
Executed at Rockwell Collins, County of clackamas and State of OREGON, this 23 day of January, 2015.

R. Heberlein
Ronald E. Heberlein

State of Oregon)
County of clackamas)

On this 23 day of January, 2015, before me personally appeared Ronald E. Heberlein 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: Alisa Bear
My Commission Expires: 5-5-2017
Commission Number: A477980



ASSIGNMENT OF INVENTION

WHEREAS, David I. Han, of Lake Oswego, County of Clackamas, and State of Oregon, hereinafter sometimes referred to as "said inventor", has invented certain new and useful improvements in

SENSOR-BASED NAVIGATION CORRECTION

which invention or inventions (hereinafter referred to as "inventions") have been disclosed to and filed, under Docket No. 14CR817, 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.

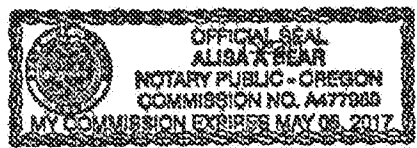
FURTHER, said inventor hereby agrees to sign all lawful papers necessary or helpful in obtaining patents, whether U.S. or foreign, on said invention or filing any divisional, continuation, substitution, or reissue application on said invention.

Executed at Rockwell Collins, County of Clackamas and State of Oregon, this 23 day of January, 2015.

David I. Han
David I. Han

State of Oregon)
County of Clackamas)

On this 23 day of January, 2015, before me personally appeared David I. Han 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: Alisa Bear
My Commission Expires: 5-5-2017
Commission Number: A47788