

PATENT ASSIGNMENT

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| Ted J. Hoffmann | 08/12/2011 |
| Jonathan A. Lovseth | 08/17/2011 |
| Vadim Olen | 08/12/2011 |
| RECEIVING PARTY DATA | |
| 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 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 13211857 |
| CORRESPONDENCE DATA | |
| Fax Number: | (319)295-8777 |
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| Phone: | 319-295-8280 |
| Email: | skmathew@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: | 11CR222 |
| NAME OF SUBMITTER: | Jeffrey M. Andersen |
| Total Attachments: 3 source=11CR222Assisgnment#page1.tif source=11CR222Assisgnment#page2.tif source=11CR222Assisgnment#page3.tif | |

CH \$40.00 13211857

ASSIGNMENT OF INVENTION

WHEREAS, Ted J. Hoffmann, of Hiawatha, County of Linn, and State of Iowa, hereinafter sometimes referred to as "said inventor", has invented certain new and useful improvements in

DIFFERENTIAL CANCELLATION OF VIBRATION INTERFERENCE IN OSCILLATORS

which invention or inventions (hereinafter referred to as "inventions") have been disclosed to and filed, under Docket No. 11CR222, 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.

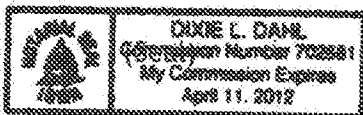
FURTHER, said inventor hereby agrees to sign all lawful papers necessary or helpful in obtaining patents, whether U.S. or foreign, on said invention or filing any divisional, continuation, substitution, or reissue application on said invention.

Executed at Cedar Rapids, County of Linn and State of Iowa, this 12 day of August, 2011.

[Signature]
TED J. HOFFMANN

State of Iowa)
County of Linn)

On this 12 day of August, 2011, before me personally appeared TED J. HOFFMANN 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: Dixie L. Dahl
My Commission Expires: April 11, 2012
Commission Number: 702681

ASSIGNMENT OF INVENTION

WHEREAS, Jonathan A. Lovseth, of Marion, County of Linn, and State of Iowa, hereinafter sometimes referred to as "said inventor", has invented certain new and useful improvements in

DIFFERENTIAL CANCELLATION OF VIBRATION INTERFERENCE IN OSCILLATORS

which invention or inventions (hereinafter referred to as "inventions") have been disclosed to and filed, under Docket No. 11CR222, 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.

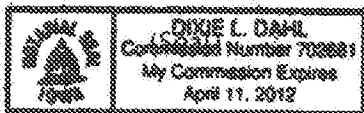
FURTHER, said inventor hereby agrees to sign all lawful papers necessary or helpful in obtaining patents, whether U.S. or foreign, on said invention or filing any divisional, continuation, substitution, or reissue application on said invention.

Executed at Cedar Rapids, County of Linn and State of Iowa, this 17 day of August, 2011.

Jonathan Lovseth
JONATHAN A. LOVSETH

State of Iowa)
County of Linn)

On this 17 day of AUGUST, 2011, before me personally appeared JONATHAN A. LOVSETH 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: Dixie L. Dahl
My Commission Expires: APRIL 11, 2012
Commission Number: 702681

ASSIGNMENT OF INVENTION

WHEREAS, Vadim Olen, 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

DIFFERENTIAL CANCELLATION OF VIBRATION INTERFERENCE IN OSCILLATORS

which invention or inventions (hereinafter referred to as "inventions") have been disclosed to and filed, under Docket No. 11CR222, 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.

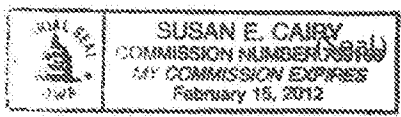
FURTHER, said inventor hereby agrees to sign all lawful papers necessary or helpful in obtaining patents, whether U.S. or foreign, on said invention or filing any divisional, continuation, substitution, or reissue application on said invention.

Executed at Cedar Rapids, County of Linn and State of Iowa, this 12 day of August, 2011.

[Signature]
VADIM OLEN

State of Iowa)
County of Linn)

On this 12th day of August, 2011, before me personally appeared VADIM OLEN 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: 2-18-2012
Commission Number: 739156