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U.S. PTO
12/150139
04/25/2008

05-05-2008

FORM PTO-1595

1-31-92



U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

Docket No. 08CR157/KE

103500406

1. Name of conveying party(ies):

Jeremiah D. Wolf Jonathan P. Doane
Nathan P. Lower James B. West
Lee M. Paulsen

Additional name(s) of conveying party(ies) attached?

YES NO

2. Name and address of receiving party(ies):

Rockwell Collins, Inc.
400 Collins Road NE
M/S 124-323
Cedar Rapids, IA 52498

Additional name(s) and Address(es) attached:?

YES NO

3. Nature of conveyance:

Assignment Merger Security Agreement
 Change of Name Other _____

Execution Date: April 23, 2008; April 23, 2008; April 23, 2008; April 23, 2008; April 23, 2008

4. Application number(s) or patent number(s):

Serial N^o Filed: April 23, 2008 Express Mail Label N^o: EM 165527805 US

If this document is being filed together with a new application, the execution date of the application is: April 23, 2008.

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached: YES NO

5. Name and address of party to whom
correspondence concerning document should be
mailed:

Customer No. 26383
Rockwell Collins, Inc.
Kyle Eppel
400 Collins Road, NE
M/S 124-323
Cedar Rapids, IA 52498

6. Total number of applications and patents
involved: **ONE**

7. Total fee (37 CFR 3.41) **\$ 40.00**

The Commissioner is hereby authorized to charge
the recordation fee to deposit account 19-4882.
(Attach duplicate copy of this page if paying by deposit account).

05/02/2008 DBYRNE 00000052 194882 12150139

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40.00 DA

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached
copy is a true copy of the original document.

DATE: April 25, 2008
PATENT

REEL: 020902 FRAME: 0674

ASSIGNMENT OF INVENTION

U.S. PTO
12/150139
04/25/2008

WHEREAS, Jeremiah D. Wolf, of Cedar Rapids, IA, County of LINN, and State of Iowa, hereinafter sometimes referred to as "said inventor", has invented certain new and useful improvements in RECONFIGURABLE RADIO FREQUENCY (RF) SURFACE WITH OPTICAL BIAS FOR RF ANTENNA AND RF CIRCUIT APPLICATIONS

which invention or inventions (hereinafter referred to as "inventions") have been disclosed to and filed, under Docket No. 08CR157/KE, 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 23 day of April, 2008.

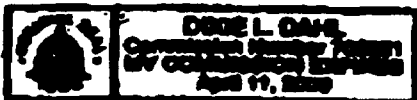
Jeremiah D. Wolf
JEREMIAH D. WOLF

State of Iowa)
County of Linn)

On this 23 day of April, 2008, before me personally appeared JEREMIAH D. WOLF to me known to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same.

(Seal)

Dixie L. Dahl
Notary Public: DIXIE L. DAHL
My Commission Expires: APRIL 11, 2009
Commission Number: 702681



ASSIGNMENT OF INVENTION

WHEREAS, Nathan P. Lower, of North Liberty, IA, County of Linn, and State of Iowa, hereinafter sometimes referred to as "said inventor", has invented certain new and useful improvements in RECONFIGURABLE RADIO FREQUENCY (RF) SURFACE WITH OPTICAL BIAS FOR RF ANTENNA AND RF CIRCUIT APPLICATIONS

which invention or inventions (hereinafter referred to as "inventions") have been disclosed to and filed, under Docket No. 08CR157/KE, 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.

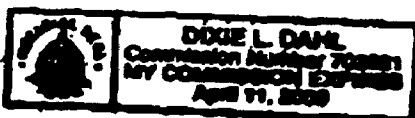
Executed at Cedar Rapids, County of Linn and State of Iowa, this 23 day of April, 2008.

Nathan P. Lower
NATHAN P. LOWER

State of Iowa)
County of LINN)

On this 23 day of APRIL, 2008, before me personally appeared NATHAN P. LOWER to me known to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same.

(Seal)



Dixie L. Dahl
Notary Public: DIXIE L. DAHL
My Commission Expires: APRIL 11, 2009
Commission Number: 702681

ASSIGNMENT OF INVENTION

WHEREAS, Lee M. Paulsen, of Cedar Rapids, IA, County of Linn, and State of Iowa, hereinafter sometimes referred to as "said inventor", has invented certain new and useful improvements in RECONFIGURABLE RADIO FREQUENCY (RF) SURFACE WITH OPTICAL BIAS FOR RF ANTENNA AND RF CIRCUIT APPLICATIONS

which invention or inventions (hereinafter referred to as "inventions") have been disclosed to and filed, under Docket No. 08CR157/KE, 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.

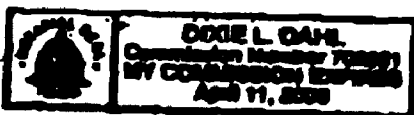
Executed at Cedar Rapids, County of Linn and State of Iowa, this 27 day of April, 2008.

Lee M. Paulsen
LEE M. PAULSEN

State of Iowa)
County of Linn)

On this 23 day of APRIL, 2008, before me personally appeared LEE M. PAULSEN to me known to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same.

(Seal)



Dixie L. Dahl
Notary Public: DIXIE L. DAHL
My Commission Expires: APRIL 11, 2009
Commission Number: 702681

ASSIGNMENT OF INVENTION

WHEREAS, Jonathan P. Doane, of Cedar Rapids, IA, County of Linn, and State of Iowa, hereinafter sometimes referred to as "said inventor", has invented certain new and useful improvements in RECONFIGURABLE RADIO FREQUENCY (RF) SURFACE WITH OPTICAL BIAS FOR RF ANTENNA AND RF CIRCUIT APPLICATIONS

which invention or inventions (hereinafter referred to as "inventions") have been disclosed to and filed, under Docket No. 08CR157/KE, 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 23 day of April, 2008.

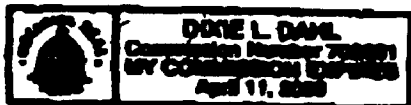
Jonathan P. Doane
JONATHAN P. DOANE

State of Iowa)
County of Linn)

On this 23 day of APRIL, 2008, before me personally appeared JONATHAN P. DOANE to me known to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same.

(Seal)

Dixie L. Dahl
Notary Public: DIXIE L. DAHL
My Commission Expires: APRIL 11, 2009
Commission Number: 702681



ASSIGNMENT OF INVENTION

WHEREAS, James B. West, of Cedar Rapids, IA, County of Linn, and State of Iowa, hereinafter sometimes referred to as "said inventor", has invented certain new and useful improvements in RECONFIGURABLE RADIO FREQUENCY (RF) SURFACE WITH OPTICAL BIAS FOR RF ANTENNA AND RF CIRCUIT APPLICATIONS

which invention or inventions (hereinafter referred to as "inventions") have been disclosed to and filed, under Docket No. 08CR157/KE, 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.

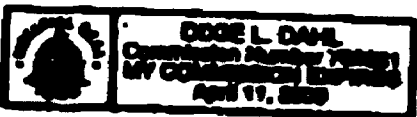
Executed at Cedar Rapids, County of Linn and State of Iowa, this 23 day of April, 2008

[Signature]
JAMES B. WEST

State of Iowa)
County of Linn)

On this 23 day of APRIL, 2008, before me personally appeared JAMES B. WEST to me known to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same.

(Seal)



Dixie L. Dahl
Notary Public: DIXIE L. DAHL
My Commission Expires: APRIL 11, 2009
Commission Number: 702681