

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
ABBAS M. CHARAFEDDINE	10/06/2011
DOUGLAS. M CHAPMAN	09/07/2011
ROBERT S. BARLOW	10/06/2011
GUY J. DUPLAIN	08/24/2011
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	
Property Type	Number
Application Number:	13177496
CORRESPONDENCE DATA	
Fax Number:	(319)295-8777
Phone:	319-295-8280
Email:	skmathew@rockwellcollins.com
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>	
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:	10IR353
NAME OF SUBMITTER:	LAWRENCE N. GINSBERG

OP \$40.00 13177496

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PATENT
REEL: 027030 FRAME: 0564

Total Attachments: 7

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ASSIGNMENT OF INVENTION

WHEREAS, ABBAS M. CHARAFEDDINE of Mission Viejo, County of Orange, State of California hereinafter sometimes referred to as "said Inventor", has invented certain new and useful improvements in

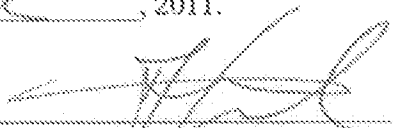
METHOD AND SYSTEM FOR MINIMIZING AXIAL BACKLASH IN A DUAL LOAD PATH FAIL-SAFE AIRCRAFT ACTUATOR SYSTEM

which invention or inventions (hereinafter referred to as "Inventions") have been disclosed to and filed, under Docket No. 10IR353 in the patent files of the inventor's employer, ROCKWELL COLLINS, INC., and which invention is covered by a patent application, executed and filed as Serial No. 13/177,496 on 7/6/2011.

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.

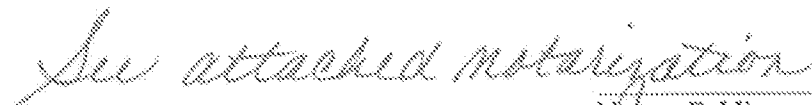
FURTHER, said inventor hereby agrees to sign all lawful papers necessary or helpful in obtaining patents, whether U.S. or foreign, on said invention or filing any divisional, continuation, substitution or reissue application on said invention.

Executed at IRVINE, County of ORANGE, and State of California this 6 day of OCTOBER, 2011.


ABBAS M. CHARAFEDDINE, Inventor

State of _____)
County of _____) SS:

Before me personally appeared said _____ and acknowledge the foregoing instrument to be his free act and deed this _____ day of _____, 20____.


Notary Public

Seal

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of Orange

On Oct 6, 2011 before me, Laura A. Kovach Notary

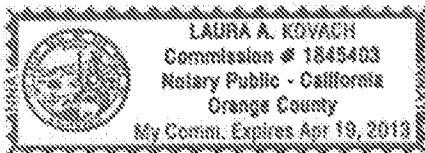
personally appeared Abbas M. Charafeddine

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies); and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: Laura A. Kovach



Place Notary Seal and/or Stamp Above

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Description of Attached Document

Title or Type of Document: Assignment of Invention Patent # 6112343

Document Date: NO DATE Serial # US/117,494,000, 7/1/2011 Number of Pages: ONE

Signer(s) Other Than Named Above: NO OTHER SIGNERS

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____

☐ Corporate Officer — Title(s): _____

☒ Individual

☐ Partner — ☐ Limited ☐ General

☐ Attorney in Fact

☐ Trustee

☐ Guardian or Conservator

☐ Other: _____

Signer is Representing: _____

Signer's Name: _____

☐ Corporate Officer — Title(s): _____

☐ Individual

☐ Partner — ☐ Limited ☐ General

☐ Attorney in Fact

☐ Trustee

☐ Guardian or Conservator

☐ Other: _____

Signer is Representing: _____

ASSIGNMENT OF INVENTION

WHEREAS, DOUGLAS M. CHAPMAN of Santa Ana, County of Orange, State of California hereinafter sometimes referred to as "said Inventor", has invented certain new and useful improvements in

METHOD AND SYSTEM FOR MINIMIZING AXIAL BACKLASH IN A DUAL LOAD PATH FAIL-SAFE AIRCRAFT ACTUATOR SYSTEM

which invention or inventions (hereinafter referred to as "Inventions") have been disclosed to and filed, under Docket No. 10IR353 in the patent files of the inventor's employer, ROCKWELL COLLINS, INC., and which invention is covered by a patent application, executed and filed as Serial No. 13/177,496 on 7/6/2011.

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 Justin, County of Orange, and State of California this 7th day of September, 2011.

Douglas M. Chapman
DOUGLAS M. CHAPMAN, Inventor

State of _____)
County of _____) SS:

Before me personally appeared said _____ and acknowledge the foregoing instrument to be his free act and deed this _____ day of _____, 20_____.

CERTIFICATE ATTACHED FOR
CALIFORNIA NOTARY WORDING

Notary Public

Seal

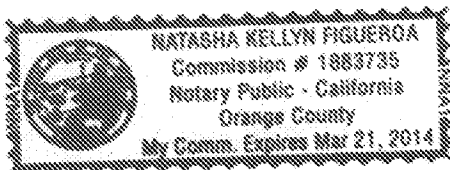
CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of Orange

On 7 September 2011 before me, Natasha Kellyn Figueroa, Notary Public

personally appeared Douglas M Chapman



who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: Natasha Kellyn Figueroa

Place Notary Seal and/or Stamp Above

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Description of Attached Document

Title or Type of Document: Assignment of Invention

Document Date: 7 September 2011 Number of Pages: 1

Signer(s) Other Than Named Above:

Capacity(ies) Claimed by Signer(s)

Signer's Name:

☐ Corporate Officer — Title(s):

☐ Individual

☐ Partner — ☐ Limited ☐ General

☐ Attorney in Fact

☐ Trustee

☐ Guardian or Conservator

☐ Other:

Signer is Representing:

Signer's Name:

☐ Corporate Officer — Title(s):

☐ Individual

☐ Partner — ☐ Limited ☐ General

☐ Attorney in Fact

☐ Trustee

☐ Guardian or Conservator

☐ Other:

Signer is Representing:

ASSIGNMENT OF INVENTION

WHEREAS, ROBERT S. BARLOW of Irvine, County of Orange, State of California hereinafter sometimes referred to as "said Inventor", has invented certain new and useful improvements in

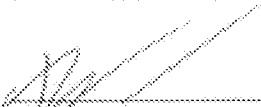
METHOD AND SYSTEM FOR MINIMIZING AXIAL BACKLASH IN A DUAL LOAD
PATH FAIL-SAFE AIRCRAFT ACTUATOR SYSTEM

which invention or inventions (hereinafter referred to as "Inventions") have been disclosed to and filed, under Docket No. 10IR353 in the patent files of the inventor's employer, ROCKWELL COLLINS, INC., and which invention is covered by a patent application, executed and filed as Serial No. 13/177,496 on 7/6/2011.

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.

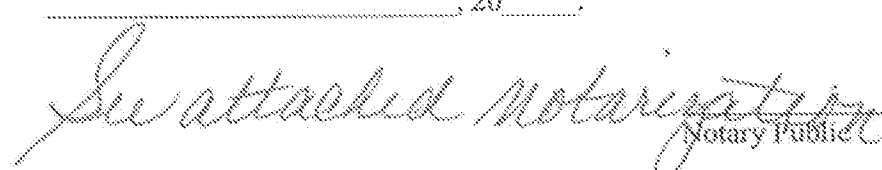
FURTHER, said inventor hereby agrees to sign all lawful papers necessary or helpful in obtaining patents, whether U.S. or foreign, on said invention or filing any divisional, continuation, substitution or reissue application on said invention.

Executed at Irvine, County of Orange, and
State of California this 6 day of October, 2011.


ROBERT S. BARLOW, Inventor

State of _____)
County of _____) SS:

Before me personally appeared said _____ and
acknowledge the foregoing instrument to be his free act and deed this _____ day of
_____, 20____.


Notary Public

Seal

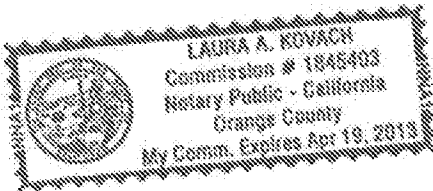
CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of Orange

On Oct 6, 2011 before me, Laura A. Kovach, Notary

personally appeared Robert S. Barlow



who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies); and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature of Laura A. Kovach

Place Notary Seal and/or Stamp Above

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Description of Attached Document

Title or Type of Document: Assignment of Invention - Doc # 1012135

Document Date: Serial # 13/177,496 on 7/6/2011 Number of Pages: one

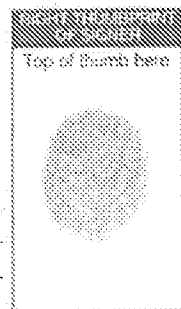
Signer(s) Other Than Named Above: no other signers

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____

- ☐ Corporate Officer — Title(s): _____
- ☒ Individual
- ☐ Partner — ☐ Limited ☐ General
- ☐ Attorney in Fact
- ☐ Trustee
- ☐ Guardian or Conservator
- ☐ Other: _____

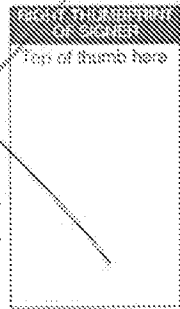
Signer is Representing: _____



Signer's Name: _____

- ☐ Corporate Officer — Title(s): _____
- ☐ Individual
- ☐ Partner — ☐ Limited ☐ General
- ☐ Attorney in Fact
- ☐ Trustee
- ☐ Guardian or Conservator
- ☐ Other: _____

Signer is Representing: _____



ASSIGNMENT OF INVENTION

WHEREAS, GUY J. DUPLAIN of Irvine, County of Orange, State of California hereinafter sometimes referred to as "said Inventor", has invented certain new and useful improvements in

METHOD AND SYSTEM FOR MINIMIZING AXIAL BACKLASH IN A DUAL LOAD PATH FAIL-SAFE AIRCRAFT ACTUATOR SYSTEM

which invention or inventions (hereinafter referred to as "Inventions") have been disclosed to and filed, under Docket No. 10IR353 in the patent files of the inventor's employer, ROCKWELL COLLINS, INC., and which invention is covered by a patent application, executed and filed as Serial No. 13/177,496 on 7/6/2011.

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.

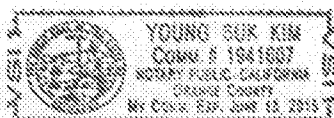
FURTHER, said inventor hereby agrees to sign all lawful papers necessary or helpful in obtaining patents, whether U.S. or foreign, on said invention or filing any divisional, continuation, substitution or reissue application on said invention.

Executed at IRVINE, County of Orange, and State of California this 24th day of August, 2011.

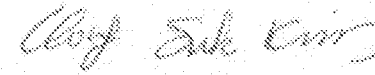

GUY J. DUPLAIN, Inventor

State of California
County of Orange SS:

Before me personally appeared said Guy Duplain and acknowledge the foregoing instrument to be his free act and deed this 28th day of August, 20 11.



Seal


Notary Public