

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

**CONVEYING PARTY DATA**

Name	Execution Date
Robert Brinkerhoff	08/31/2006
Michael Mahnken	08/31/2006
Richard Loehr	09/05/2006
James Cook	09/11/2006

**RECEIVING PARTY DATA**

Name:	Raytheon Company
Street Address:	870 Winter Street
City:	Waltham
State/Country:	MASSACHUSETTS
Postal Code:	02451-1449

**PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	12877789

**CORRESPONDENCE DATA**

Fax Number: (520)844-8644  
*Correspondence will be sent via US Mail when the fax attempt is unsuccessful.*  
 Phone: 520-760-1754  
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 Correspondent Name: Eric A. Gifford  
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 Address Line 4: TUCSON, ARIZONA 85749

ATTORNEY DOCKET NUMBER:	RAYTH.4917
NAME OF SUBMITTER:	Eric A. Gifford

Total Attachments: 4  
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**NOBLITT & GILMORE, LLC**  
— Intellectual Property and Technology Law —

**ASSIGNMENT**

Attorney Docket Reference: RAYTH.4900

Client Reference: PD-05W190 (2005-09701)

WHEREAS, each undersigned inventor (hereinafter "ASSIGNOR") of the address indicated *vide infra* is an original and first inventor of "SYSTEM AND METHOD FOR ATTITUDE CONTROL OF A FLIGHT VEHICLE USING PITCH-OVER THRUSTERS", for which an application for Letters Patent of the United States will be filed;

AND WHEREAS, RAYTHEON COMPANY (hereinafter "ASSIGNEE"), an entity having its principal place of business and mailing address at Building 807/MS F8, P.O. Box 11337, Tucson, Arizona, USA, 85706 is desirous of memorializing its interest therein;

NOW, THEREFORE, the undersigned ASSIGNOR hereby confirms ASSIGNEE owns the invention as described in the aforesaid application. Nevertheless, to comport with Patent and Trademark Office procedures, ASSIGNOR memorializes that transfer in the form of this Assignment and;

THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR by these presents does sell, assign and transfer unto ASSIGNEE, its successors, assigns and legal representatives, the ASSIGNOR's full and exclusive right and title to the invention as described in the aforesaid application, in the United States and all foreign countries, together with any related applications or rights, including any Provisional, Non-provisional, Continuation, Continuation-in-Part, Divisional, Reissue, Reexamination, foreign, PCT, or other patent application or like document or right, as well as any right of priority under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States adheres, and hereby authorizes and requests the Commissioner of Patents to issue any Letters Patent issuing from or claiming priority to said application to ASSIGNEE, for the sole use and benefit of ASSIGNEE, its successors, assigns and legal representatives.

AND HEREBY AGREES to transfer a like interest upon request of ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements and applications for patents based thereon, growing out of or relating to the invention; and to provide all reasonable assistance and execute any papers deemed essential by ASSIGNEE, its successors, assigns and legal representatives, to ASSIGNEE's full protection and title in and to the invention hereby transferred.

AGREEING, FURTHERMORE, upon request of ASSIGNEE, and without further remuneration, to execute any and all papers desired by ASSIGNEE for the filing and granting of foreign applications and the perfecting of title thereto in ASSIGNEE.

EXECUTED as of the date indicated *vide infra* by ASSIGNOR:

Inventor: Robert Brinkerhoff

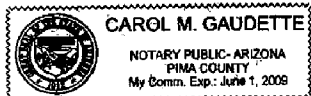
Signature: [Handwritten Signature] Date: 8/31/2006

Residence address: 730 N. La Cholla Blvd. Tucson, Arizona, USA 85745

STATE OF Arizona )  
 ) ss.  
COUNTY OF Pima )

On this 31<sup>st</sup> day of August, 2006 before me, a notary public in and for said county, appeared Robert Brinkerhoff, who is known to me to be the same person whose name is subscribed to the foregoing instrument, and s/he acknowledges that s/he signed, sealed and delivered the said instrument as a free and voluntary act for the uses and purposes therein set forth.

(Seal) [Handwritten Signature]  
Notary Public



Inventor: Michael Mahnken

Signature: *[Handwritten Signature]* Date: 8/31/06

Residence address: 1719 W. Wimbledon Way, Oro Valley, Arizona, 85737

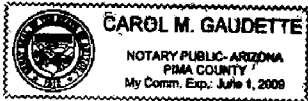
STATE OF Arizona )

COUNTY OF Pima ) ss.

On this 31<sup>st</sup> day of August, 2006 before me, a notary public in and for said county, appeared Michael Mahnken, who is known to me to be the same person whose name is subscribed to the foregoing instrument, and s/he acknowledges that s/he signed, sealed and delivered the said instrument as a free and voluntary act for the uses and purposes therein set forth.

(Seal)

*Carol M. Gaudette*  
Notary Public



Inventor: Richard Loehr

Signature: \_\_\_\_\_

Date: 9/5/06

Residence address: 9347 N. Camino de Plz. Tucson, Arizona. 85742

STATE OF Arizona )

) ss.

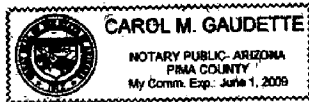
COUNTY OF Pima )

On this 5<sup>th</sup> day of September, 2006, before me, a notary public in and for said county, appeared Richard Loehr, who is known to me to be the same person whose name is subscribed to the foregoing instrument, and s/he acknowledges that s/he signed, sealed and delivered the said instrument as a free and voluntary act for the uses and purposes therein set forth.

(Seal)

Carol M. Gaudette

Notary Public



Inventor: James Cook

Signature: *J. Cook* Date: 9-11-2006

Residence address: 1050 S. Bill Martin Dr, Tucson, Arizona, 85745-514

STATE OF Arizona )

COUNTY OF Pima ) ss.

On this 11<sup>th</sup> day of September, 2006, before me, a notary public in and for said county, appeared James Cook, who is known to me to be the same person whose name is subscribed to the foregoing instrument, and s/he acknowledges that s/he signed, sealed and delivered the said instrument as a free and voluntary act for the uses and purposes therein set forth.

(Seal) *Carol M. Gaudette*  
Notary Public

