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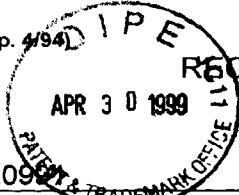
FORM PTO-1595

(Rev. 6-93)

OMB No. 0651-0011 (exp. 4/94)

05-10-1999

DEPARTMENT OF COMMERCE
Patent and Trademark Office



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PD-980222

Customer No.: 02099

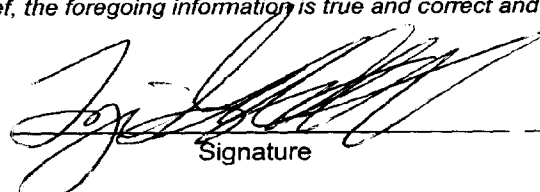
To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

<p>1. Name of conveying party(ies):</p> <p>John F. Yocum, Jr. Patrick A. Cazeau Stephen J. Koffman Douglas A. Baker</p> <p>Additional Name(s) of conveying party(ies) attached? yes <input type="checkbox"/> no <input checked="" type="checkbox"/></p>		<p>2. Name and address of receiving party(ies):</p> <p>Name: HUGHES ELECTRONICS CORPORATION</p> <p>Internal Address: Bldg. 001, M/S A109 P.O. Box 956 El Segundo, California 90245-0956</p>	
<p>3. Nature of Conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____</p> <p>Execution Date: <u>March 8, 1999 and April 26, 1999.</u></p>		<p>Street Address: Bldg. 001, M.S. A109 200 North Sepulveda Blvd. El Segundo, California 90245-0956</p> <p>Additional name(s) & address(es) attached? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no</p>	
<p>4. Application number(s) or patent number(s):</p> <p>If this document is being filed together with a new application, the execution date of the application is: _____</p> <p>(A. Patent Application No.(s) 09/222,450 Filed: December 29, 1998) B. Patent No.(s)</p> <p>Additional numbers attached? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no</p>			
<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: Patent Records Administration Internal Address: HUGHES ELECTRONICS CORPORATION Building 001, M/S A109 P.O. Box 956 El Segundo, California 90245-0956</p> <p>Street Address: 200 North Sepulveda Boulevard El Segundo, California 90245-0956</p>		<p>6. Total number of applications and patents involved: [1]</p> <p>7. Total fee (37 CFR 3.41)..... \$40.00</p> <p><input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account</p> <p>8. Deposit account number: 50-0383</p>	

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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.

Terje Gudmestad, Reg. No. 32,232  April 27, 1999
Signature Date

Total number of pages comprising cover sheet: [03]

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

05/05/1999 CVORACHA 00000006 500383 09222450
03 EC:581 40.00 CH

PATENT
REEL: 9929 FRAME: 0975

ASSIGNMENT

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Customer No. 020991

PD-980222

WHEREAS, I, as below named sole inventor (if only one name is listed below) or joint inventor (if plural names are listed below) of the city and state as stated below next to my name, have invented a (an) **METHOD OF CONTROLLING ATTITUDE OF A MOMENTUM BIASED SPACECRAFT DURING LONG-DURATION THRUSTER FIRINGS** for which application for Letters Patent of the United States has been executed by me on this day, or (if the following is completed) filed on December 29, 1999 as Serial No. 09/222,450; and

WHEREAS, **HUGHES ELECTRONICS CORPORATION**, (hereinafter referred to as **HUGHES**), a Delaware Corporation, having its principal place of business in El Segundo, California, is desirous of acquiring the entire and exclusive right, title and interest in, to and under said invention, said application and any and all Letters Patent that may be granted therefor in the United States and throughout the world;

NOW, THEREFORE, in consideration of the obligations voluntarily assumed by me and set forth in an invention agreement between me and my employer, effective the date as stated below next to my name, and other good and valuable consideration, receipt of which is hereby acknowledged, I do hereby sell, assign and transfer to HUGHES, its successors, assigns or other legal representatives, the entire and exclusive right, title and interest in and to said invention invented by me, to said application and any and all applications which are continuations, continuations-in- part, divisions or substitutes of said application and any and all Letters Patent that may be granted therefor in the United States and throughout the world on any of said applications and to any and all reexaminations, reissues, renewals or extensions of said Letters Patent in the United States and throughout the world for the full term or terms for which said Letters patent may be granted in the United States and throughout the world; authorize and request The Commissioner of Patents and Trademarks of the United States and all foreign countries to issue all such Letters Patent to said HUGHES, its successors, assigns or other legal representatives; covenant that no assignment, sale, agreement, transfer or encumbrance has been, or will be, made or entered into which would conflict with this assignment, sale and transfer; and agree to communicate to HUGHES, its successors, assigns or other legal representatives, upon request and at no cost or expense to me, any facts known by me respecting said invention, do all lawful acts, including the execution and delivery of all papers and proper oaths and giving of testimony that is deemed necessary or desirable by HUGHES, its successors, assigns or other legal representatives with regard to said invention for protecting, obtaining, maintaining and enforcing any and all of said letters Patent in the United States and throughout the world for said invention and for perfecting, affirming, recording and maintaining the title of HUGHES, its successors, assigns or other legal representatives, and generally cooperate to the fullest extent in all matters pertaining to said invention, and any and all of said Letters Patent and the title thereto in HUGHES, its successors, assigns or other legal representatives.

IN WITNESS WHEREOF, I have executed this instrument.

FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
John F. Yocum, Jr.	<i>John F. Yocum Jr</i>	4-26-99
RESIDENCE (CITY AND STATE)		INVENTION AGREEMENT DATE
28717 Shire Oaks, Rancho Palos Verdes, California 90275		June 30, 1967

FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Patrick A. Cazeau	<i>Patrick A. Cazeau</i>	3-8-99
RESIDENCE (CITY AND STATE)		INVENTION AGREEMENT DATE
5224 West 57th Street, Ladera Heights, California 90056		August 01, 1994

FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Stephen J. Koffman	<i>Stephen J. Koffman</i>	3/8/99
RESIDENCE (CITY AND STATE)		INVENTION AGREEMENT DATE
2000 HUNTINGTON LANE, #1, REDONDO BEACH, CALIFORNIA 90278 9848 Tabor Street, Apartment 211, Los Angeles, California 90034		April 17, 1997

FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Douglas A. Baker	<i>Douglas A. Baker</i>	3-8-99
RESIDENCE (CITY AND STATE)		INVENTION AGREEMENT DATE
5520 West 190 Street, apartment 249, Manhattan Beach, California 90266 Torrance, California 90503		October 8, 1990

FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE)		INVENTION AGREEMENT DATE

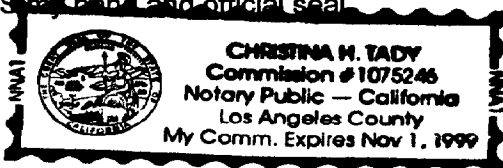
STATE OF California)
COUNTY OF Los Angeles)

SS:

On March 8, 1999 before me, Christina H. Tady-----,
a Notary Public in and for said State, personally appeared Patrick A. Cazeau, Stephen J. Koffman
and Douglas A. Baker-----,

☐ personally known to me or ☒ 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.

WITNESS my hand and official seal.



Christina H. Tady
Notary Public

STATE OF CALIFORNIA

COUNTY OF LOS ANGELES

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On April 26, 1999 before me, CHRISTINA H. TADY

a Notary Public in and for said State, personally appeared John F. Yocum, Jr.

☐ personally known to me or ☒ 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.

WITNESS my hand and official seal.

Christina H. Tady
Notary Public

