

03-17-1999

FORM PTO-1595
1-31-92



100987208

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office
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09/261727

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

1. Name of conveying party(ies): 3-3-99

Yeong-wei A. Wu
Douglas H. Hein
Garry Didinsky
David L. Augenstein

Additional Name(s) of conveying party(ies) attached?
yes no

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

Name: HUGHES ELECTRONICS CORPORATION

Internal Address: Bldg. 001, M/S A109
P.O. Box 956
200 N. Sepulveda Blvd.
El Segundo, CA 90245-0956

3. Nature of Conveyance:

Assignment Merger
 Security Agreement Change of Name
 Other _____

Execution Date: February 12, 1999; February 23, 1999;
February 25, 1999; March 1, 1999.

Street Address: Bldg. 001, M.S. A109
200 N. Sepulveda Blvd.
El Segundo, California 90245

Additional name(s) & address(es) attached? yes no

4. Application number(s) or patent number(s): 09/261,727

If this document is being filed together with a new application, the execution date of the application is: February 12, 1999; February 23, 1999; February 25, 1999; March 1, 1999.

A. Patent Application No.(s):
B. Patent No.(s):

Additional numbers attached? yes no

6. Total number of applications and patents involved: [1]

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

Enclosed
 Authorized to be charged to deposit account

8. Deposit account number:
50-0383

(Attached duplicate copy of this page if paying by deposit account)

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

Name: Patent Records Administration
Address: Hughes Electronics Corporation
Bldg. 001, M/S A109
P.O. Box 956
200 N. Sepulveda Blvd.
El Segundo, CA 90245-0956

Customer No. 020991

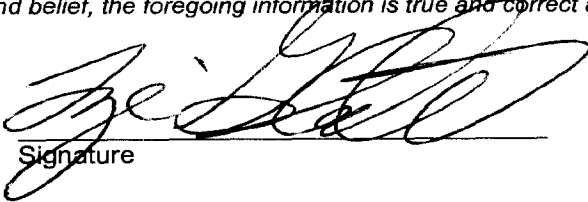
03/16/1999 JSHABAZZ 00000044 500383 09261727
01 FC:581 40.00 CH

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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
Registration No. 32,232


Signature

3/3/99
Date

Total number of pages including cover sheet: [5]

ASSIGNMENT

Customer No. 020991

PD-970256

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 AND APPARATUS FOR CONTROLLING SPACECRAFT ATTITUDE WITH ROTATIONAL STAR TRACKERS** 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 _____ as Serial No. _____ ; 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 YEONG-WEI A. WU	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE) 28525 CEDARBLUFF DRIVE, RANCHO PALOS VERDES, CA 90274		INVENTION AGREEMENT DATE January 6, 1982

FULL NAME OF SOLE OR JOINT INVENTOR DOUGLAS H. HEIN	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE) 2545 CORDELIA ROAD, LOS ANGELES, CA 90049		INVENTION AGREEMENT DATE September 26, 1983

FULL NAME OF SOLE OR JOINT INVENTOR GARRY DIDINSKY	INVENTOR'S SIGNATURE <i>Garry Didinsky</i>	DATE 2/12/99
RESIDENCE (CITY AND STATE) 8821 D WASHINGTON BLVD, NILES, IL 60714		INVENTION AGREEMENT DATE January 9, 1995

FULL NAME OF SOLE OR JOINT INVENTOR DAVID L. AUGENSTEIN	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE) 341 MANHATTAN AVENUE, HERMOSA BEACH, CA 90254		INVENTION AGREEMENT DATE November 28, 1990

STATE OF IL)
COUNTY OF COOK)

SS:

On February 12, 1999 before me, Garry Didinsky Notary Public in and for said State, personally appeared Sean W. Killham
Garry Didinsky

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.

Sean W. Killham

Notary Public



IN WITNESS WHEREOF, I have executed this instrument.

FULL NAME OF SOLE OR JOINT INVENTOR YEONG-WEI A. WU	INVENTOR'S SIGNATURE <i>Yeong-Wei Andy Wu</i>	DATE 2/23/99
RESIDENCE (CITY AND STATE) 28525 CEDARBLUFF DRIVE, RANCHO PALOS VERDES, CA 9027# ⁵ (18)		INVENTION AGREEMENT DATE January 6, 1982

FULL NAME OF SOLE OR JOINT INVENTOR DOUGLAS H. HEIN	INVENTOR'S SIGNATURE <i>Douglas H Hein</i>	DATE 2/25/99
RESIDENCE (CITY AND STATE) 2545 CORDELIA ROAD, LOS ANGELES, CA 90049		INVENTION AGREEMENT DATE September 26, 1983

FULL NAME OF SOLE OR JOINT INVENTOR GARRY DIDINSKY	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE) 8821 D WASHINGTON BLVD, NILES, IL 60714		INVENTION AGREEMENT DATE January 9, 1995

FULL NAME OF SOLE OR JOINT INVENTOR DAVID L. AUGENSTEIN	INVENTOR'S SIGNATURE <i>David L. Augenstein</i>	DATE 3/1/99
RESIDENCE (CITY AND STATE) ³³² 341 MANHATTAN AVENUE, HERMOSA BEACH, CA 90254		INVENTION AGREEMENT DATE November 28, 1990

B.L.C.

STATE OF California)
 COUNTY OF Los Angeles) SS:
 On 2-23-99 before me, Kathleen M. Motta
 a Notary Public in and for said State, personally appeared Yeong-Wei Andy Wu

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.

Kathleen M. Motta
 Notary Public



ASSIGNMENT

ADDENDUM
PD-970256

STATE OF CALIFORNIA)
COUNTY OF Los Angeles)

SS:

On FEB. 25, 1999, before me, DIANA HUI, a Notary Public in
and for said State, personally appeared DOUGLAS H. HEIN

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.



[Signature]
Notary Public

STATE OF California)
COUNTY OF Los Angeles)

SS:

On 3-1-99, before me, Kathleen M. Motta, a Notary Public in
and for said State, personally appeared David L. Augenstein

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.



[Signature]
Notary Public

STATE OF _____)
COUNTY OF _____)

SS:

On _____, before me, _____, a Notary Public in
and for said State, personally appeared _____

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.

Notary Public