

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
HUGHES ELECTRONICS CORPORATION	10/06/2000
RECEIVING PARTY DATA	
Name:	THE BOEING COMPANY
Street Address:	100 North Riverside Plaza
City:	Chicago
State/Country:	ILLINOIS
Postal Code:	60606-1596
PROPERTY NUMBERS Total: 1	
Property Type	Number
Patent Number:	5283512
CORRESPONDENCE DATA	
Fax Number:	(949)790-1211
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone:	949-790-1361
Email:	debbie.a.herrera@boeing.com
Correspondent Name:	Terje Gudmestad
Address Line 1:	15460 Laguna Canyon Road
Address Line 4:	Irvine, CALIFORNIA 92618
ATTORNEY DOCKET NUMBER:	091333
NAME OF SUBMITTER:	Terje Gudmestad
Total Attachments: 4	
source=091333.HEC2TBC Recordation.122005#page1.tif	
source=091333.HEC2TBC Recordation.122005#page2.tif	
source=091333.HEC2TBC Recordation.122005#page3.tif	
source=091333.HEC2TBC Recordation.122005#page4.tif	

CH \$40.00 5283512

Docket No: 091333

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

1. Name of conveying party(ies):
HUGHES ELECTRONICS CORPORATION
Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)
Name: **THE BOEING COMPANY**
Internal Address: **100 North Riverside Plaza**
Chicago, IL 60606-1596
Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____
Execution Date: October 6, 2000

4. Application number(s) or patent number(s): 091333
If this document is being filed together with a new application, the execution date of the application is: _____
A. Patent Application No.(s) :
07/867,578
Additional numbers attached? Yes No

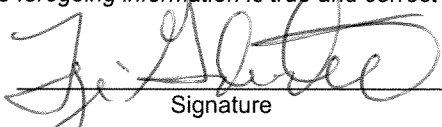
B. Patent No.(s):
5,283,512

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: **Terje Gudmestad**
Internal Address: **Boeing Management Company**
15460 Laguna Canyon Road
Irvine, CA 92618

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:
18-1730
(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

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  12/16/05
Name of Person Signing Signature Date

Total number of pages including cover sheet, attachments, and documents: 4

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

**CONFIRMATION OF ASSIGNMENT OF PATENT AND TRADEMARK
RIGHTS WITH AUTHORIZATION AND APPOINTMENT BY ASSIGNOR**

WHEREAS, HUGHES ELECTRONICS CORPORATION, a corporation of the State of Delaware, United States of America ("**Assignor**"), having a principal place of business at 200 North Sepulveda, El Segundo, California 90245, is assigning or has assigned all of its rights, title and interests in the United States and throughout the world, in and to the invention disclosures, patent applications and patents listed on Schedule A (the "**Patents**"), to the Intellectual Property Agreement dated as of the date hereof between Hughes Electronics Corporation, Hughes Space and Communications Company and The Boeing Company (the "**Intellectual Property Agreement**") to THE BOEING COMPANY ("**Assignee**"); and

WHEREAS, **Assignor** is assigning or has assigned all of its rights, title and interests in the United States and throughout the world, in and to the trademarks listed on Schedule B and tradenames listed on Schedule C ("**the Trademarks**"), to the Intellectual Property Agreement to **Assignee**; and

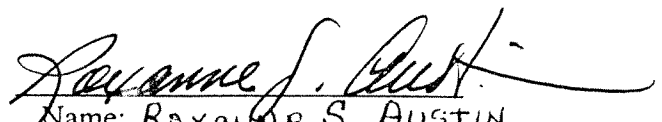
WHEREAS, it was contemplated, at the time of assignment and stated in the Purchase Agreement, that the execution and delivery of papers would be necessary for **Assignee**, its successors, assigns or representatives to perfect, affirm, record and maintain the title to the Patents and the Trademarks in **Assignee**, its successors, assigns or other legal representatives; and

WHEREAS, **Assignor** had agreed to generally cooperate to the fullest extent in all matters pertaining to the Patents and the Trademarks, and to do all lawful acts, including the execution and delivery of all papers and proper oaths that are deemed necessary or desirable by **Assignee**, its successors, assigns or representatives for accomplishing the foregoing;

NOW THEREFORE, **Assignor** hereby confirms the foregoing assignment and authorizes and appoints **Assignee** and grants **Assignee** full power of attorney to execute all necessary papers and oaths on **Assignor's** behalf and in **Assignor's** name that are necessary for **Assignee**, its successors, assigns or representatives to perfect, affirm, record and maintain the title in **Assignee**, its successors, assigns or other legal representatives to any and all of the Patents and the Trademarks in the United States and throughout the world.

ASSIGNOR:

BY:


Name: ROXANNE S. AUSTIN
Title: Sr. V.P. & CFO

STATE OF CALIFORNIA
COUNTY OF LOS ANGELES

ON September 5, 2000 before me, ELAINE M. MCGEE, a Notary Public in
and for said State, personally appeared Brent Reed

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 Elaine M. McGee

AGREED TO AND ACCEPTED BY:

ASSIGNEE:

BY: Brent Reed
Name:
Title:



Confirmation of Assignment of Patent and Trademark Rights

SCHEDULE A

PATENTS

PATENT_NO	ISSUE_DATE	PD_NO	TITLE
5,184,092	02/02/93	089289	PHASE-LOCKED LOOP FREQUENCY TRACKING DEVICE INCLUDING A DIRECT DIGITAL SYNTHESIZER
5,184,098	02/02/93	089163	SWITCHABLE DUAL MODE DIRECTIONAL FILTER SYSTEM
5,184,790	02/09/93	088171	TWO-AXIS ATTITUDE CORRECTION FOR ORBIT INCLINATION
5,187,028	02/16/93	090519	NICKEL-HYDROGEN CELLS
5,208,112	05/04/93	089648	THERMALLY REGENERATED FUEL CELL
5,216,345	06/01/93	091316	MIXED MODE STEPPER MOTOR CONTROLLER AND METHOD
5,218,522	06/08/93	091671	D.C. CHOPPER REGULATING METHOD AND APPARATUS INCORPORATING BILATERAL REGULATING VOLTAGE PATH
5,222,142	06/22/93	091564	SEQUENCE GENERATOR
5,222,178	06/22/93	091615	HIGH DENSITY FIBER OPTIC CABLE PACKAGING
5,223,702	06/29/93	091160	METHOD AND APPARATUS FOR ROTATIONAL RATE DETERMINATION USING A STELLAR REFERENCE
5,224,165	06/29/93	085246B	HIGH SPEED WORD GENERATOR
5,225,295	07/06/93	091138	BI-CELL ELECTRICAL STORAGE BATTERY
5,227,803	07/13/93	092284	TRANSPONDER LOCATION AND TRACKING SYSTEM AND METHOD
5,227,943	07/13/93	089629	POWER FAULT PROTECTION FOR HIGH MOMENTUM SYSTEMS
5,231,411	07/27/93	090300	ONE PIECE MILLIMETER WAVE PHASE SHIFTER/ANTENNA
5,233,358	08/03/93	087200	ANTENNA BEAM FORMING SYSTEM
5,247,267	09/21/93	090304	UTILIZING THERMAL CONDUCTORS TO INCREASE OPERATING POWER OF COAXIAL MICROWAVE DEVICES
5,248,510	09/28/93	091420	COBALT OXIDE PASSIVATION OF NICKEL BATTERY ELECTRODE SUBSTRATES
5,248,982	09/28/93	090152A	METHOD AND APPARATUS FOR CALIBRATING PHASED ARRAY RECEIVING ANTENNAS
5,255,879	10/26/93	091157	THREE AXES STABILIZED SPACECRAFT AND METHOD OF SUN ACQUISITION
5,257,759	11/02/93	090470	METHOD AND APPARATUS FOR CONTROLLING A SOLAR WING OF A SATELLITE USING A SUN SENSOR
5,257,872	11/02/93	090261	HIGH POWER WAVEGUIDE SWITCH AND METHOD
5,261,631	11/16/93	090298	MOMENTUM WHEEL PLATFORM STEERING SYSTEM AND METHOD
5,264,298	11/23/93	091701	LEWIS ACID THERMOELECTROCHEMICAL CONVERTER
5,265,268	11/23/93	090113	IMAGE RECOVERY MIXER
5,266,421	11/30/93	091399	ENHANCED MEMBRANE-ELECTRODE INTERFACE
5,266,911	11/30/93	090353A	MULTIPLEXING SYSTEM FOR PLURAL CHANNELS OF ELECTROMAGNETIC SIGNALS
5,282,196	01/25/94	088554A	BURSTED AND NON-BURSTED DATA ROUTER
5,283,512	02/01/94	091333	CHARGE BALANCING OF BATTERIES DURING CHARGING
5,284,309	02/08/94	092131	PROPELLANT IMMOBILIZING SYSTEM AND METHOD
5,285,174	02/08/94	091535	TEMPERATURE-COMPENSATED WAVEGUIDE ISOLATOR
5,285,176	02/08/94	090096A	FLAT CAVITY RF POWER DIVIDER
5,291,148	03/01/94	091699	GAIN LINEARIZATION WITH COPLANAR WAVEGUIDE
5,302,959	04/12/94	091284	SINGLE ELEMENT DRIVER ARCHITECTURE FOR FERRITE BASED PHASE SHIFTER
5,304,863	04/19/94	090273A	TRANSFORMER DRIVER HAVING UNLIMITED DUTY CYCLE CAPABILITY BY INSERTING NARROW PULSES DURING UNLIMITED DUTY CYCLES
5,304,944	04/19/94	092121	HIGH FREQUENCY LINEARIZER
5,305,001	04/19/94	090529	HORN RADIATOR ASSEMBLY WITH STEPPED SEPTUM POLARIZER
5,308,025	05/03/94	091422	SPACECRAFT SPIN AXIS CAPTURE SYSTEM AND METHOD
5,310,143	05/10/94	091205A	THREE AXIS THRUSTER MODULATION
5,310,144	05/10/94	091631	METHOD AND APPARATUS FOR SATELLITE TORQUE BALANCING
5,311,435	05/10/94	091210	METHOD FOR STATIONKEEPING CONTROL OF FLEXIBLE SPACECRAFT USING ONBOARD GAIN SCHEDULING SCHEME
5,318,255	06/07/94	091560	STAGE SEPARATION MECHANISM FOR SPACE VEHICLES
5,320,915	06/14/94	091757	GLASS SEALING OF ELECTROCHEMICAL STORAGE CELL STRUCTURES
5,327,150	07/05/94	092246	PHASED ARRAY ANTENNA FOR EFFICIENT RADIATION OF MICROWAVE AND THERMAL ENERGY
5,330,585	07/19/94	L92004	GALLIUM ARSENIDE/ALUMINUM GALLIUM ARSENIDE PHOTOCCELL INCLUDING ENVIRONMENTALLY SEALED OHMIC CONTACT GRID INTERFACE.....
5,337,981	08/16/94	091048	METHOD AND APPARATUS FOR COMPENSATING FOR SOLAR TORQUE TRANSIENTS ON A SATELLITE DURING A SOLAR ECLIPSE