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OMB No. 0651-0027 (exp. 5/31/2002)



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U.S. DEPARTMENT OF COMMERCE

U.S. Patent and Trademark Office

Docket No: **PD-89648**

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

3. Nature of conveyance:

☒ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☐ Other \_\_\_\_\_

Execution Date: October 6, 2000

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

4. Application number(s) or patent number(s): PD-89648

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No.(s)

B. Patent No.(s): 5,208,112

Issue Date: 04-May-1993

Additional numbers attached? ☐ Yes ☒ No

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

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and documents: 5

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231

08/07/2002 6T0N11 00000079 181730 5208112

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**PATENT**  
**REEL: 013146 FRAME: 0694**

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

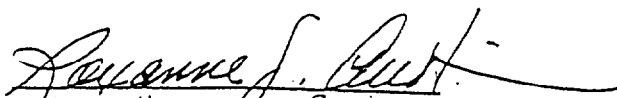
WHEREAS, it was contemplated, at the time of assignment and stated in the Purchase Agreement, that the execution and delivery of papers would be necessary for Assignee, its successors, assigns or representatives to perfect, affirm, record and maintain the title to the Patents and the Trademarks in Assignee,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

EXECUTION COPY

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

~~I 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

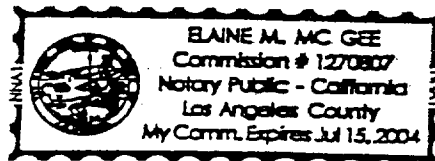
Elaine M. McGee

AGREED TO AND ACCEPTED BY:

ASSIGNEE:

BY:

Brent Reed  
Name:  
Title:



Confirmation of Assignment of Patent and Trademark Rights

# **SCHEDULE 5.14(c)**

PATENT_NO	ISSUE_DATE	PD_NO	TITLE
5,067,673	11/26/91	090034	ESSENTIALLY PASSIVE METHOD FOR INVERTING THE ORIENTATION OF A DUAL SPIN SPACECRAFT
5,072,171	12/10/91	089463	A HIGH EFFICIENCY POWER CONVERTER EMPLOYING A SYNCHRONIZED SWITCHING SYSTEM
5,072,226	12/10/91	089293	RADIOMETER SYSTEM INCORPORATING A CYLINDRICAL PARABOLIC REFLECTOR AND MINIMUM REDUNDANCY ARRAY FEED
5,077,562	12/31/91	089473	DIGITAL BEAM-FORMING TECHNIQUE USING TEMPORARY NOISE INJECTION
5,080,307	01/14/92	089102	SPACECRAFT EARTH-POINTING ATTITUDE ACQUISITION METHOD
5,081,464	01/14/92	085160	METHOD AND APPARATUS FOR PRODUCING MULTIPLE, FREQUENCY-ADDRESSABLE SCANNING BEAMS
5,083,958	01/28/92	089312A	FIELD EMITTER STRUCTURE AND FABRICATION PROCESS PROVIDING PASSAGEWAYS FOR VENTING OF OUTGASSED MATERIALS FROM ACTIVE....
5,091,940	02/25/92	088555	DATA ROUTER WITH BURST SHUFFLING AND DESHUFFLING OUTPUT BUFFERS
5,098,041	03/24/92	089385	ATTITUDE CONTROL SYSTEM FOR MOMENTUM-BIASED SPACECRAFT
5,100,494	03/31/92	89037A	STRUCTURAL BONDING AND DEBONDING SYSTEM
5,100,808	03/31/92	L90001	METHOD OF FABRICATING SOLAR CELL WITH INTEGRATED INTERCONNECT
5,107,521	04/21/92	088552	SINGLE ANALOG PATH MULTI-DATA RATE MATCHED FILTER DEMODULATOR
5,112,012	05/12/92	087058	TILTING MOMENTUM WHEEL FOR SPACECRAFT
5,119,042	06/02/92	089553	SOLID STATE POWER AMPLIFIER WITH DYNAMICALLY ADJUSTED OPERATING POINT
5,122,728	06/16/92	089622	COUPLED INDUCTOR TYPE DC TO DC CONVERTER WITH SINGLE MAGNETIC COMPONENT
5,128,600	07/07/92	089608	METHOD FOR REMOVING EXCESS ELECTROLYTE FROM A NICKEL-CADMIUM CELL
5,128,689	07/07/92	088565	EHF ARRAY ANTENNA BACKPLATE INCLUDING RADIATING MODULES, CAVITIES, AND DISTRIBUTOR SUPPORTED THEREON
5,130,206	07/14/92	090497	SURFACE COATED RF CIRCUIT ELEMENT AND METHOD
5,130,671	07/14/92	089288	PHASE-LOCKED LOOP FREQUENCY TRACKING DEVICE INCLUDING A DIRECT DIGITAL SYNTHESIZER
5,134,044	07/28/92	090024	GLASS-GRAPHITE BONDING SYSTEM FOR SODIUM-SULPHUR BATTERIES AND BATTERIES MADE THEREFROM
5,134,397	07/28/92	090338	PHASE COMPENSATION FOR ELECTROMAGNETIC RESOLVERS
5,134,417	07/28/92	088215	PLURAL FREQUENCY MATRIX MULTIPLEXER
5,134,420	07/28/92	089476	BICONE ANTENNA WITH HEMISPHERICAL BEAM
5,142,291	08/25/92	089458	PASSIVE MICROWAVE NEAR-FIELD TOMOGRAPHIC IMAGING SYSTEM AND METHOD
5,148,131	09/15/92	091084	COAXIAL-TO-WAVEGUIDE TRANSDUCER WITH IMPROVED MATCHING
5,158,840	10/27/92	090144	GLASS SEALING MATERIALS FOR SODIUM-SULFUR BATTERIES AND BATTERIES MADE THEREWITH
5,159,540	10/27/92	091165	HIGH-EFFICIENCY SATURABLE CORE VOLTAGE CONVERTER
5,160,895	11/03/92	090018	MMIC AMPLIFIER WITH EXTENDED DYNAMIC RANGE AND LOW DISTORTION
5,162,697	11/10/92	088080	TRAVELING WAVE TUBE WITH GAIN FLATTENING SLOW WAVE STRUCTURE
5,162,747	11/10/92	090322	VELOCITY MODULATION MICROWAVE AMPLIFIER WITH MULTIPLE BAND INTERACTION STRUCTURES
5,163,640	11/17/92	090397	ACTIVE SPIN AXIS CONTROL FOR SPINNING SPACE VEHICLES
5,172,082	12/15/92	090495	MULTI-OCTAVE BANDWIDTH BALUN
5,173,669	12/22/92	089054	SLOW-WAVE STRUCTURE HAVING BLOCK SUPPORTED HELIX STRUCTURE
5,182,849	02/02/93	089485	PROCESS FOR MANUFACTURING LIGHTWEIGHT, LOW COST MICROWAVE COMPONENTS
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