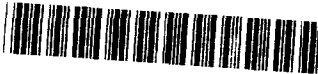


11/22/04

11-26-2004

Form PTO-1595
(Rev. 03/01)
OMB No. 0651-0027 (exp. 5/31/2002)



U.S. DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office

Docket No: PD-94366

102889904

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 06, 2000

4. Application number(s) or patent number(s): PD-94366

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

A. Patent Application No.(s)

Patent No.(s): 5,748,057
Issue Date: 05/05/98

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

11/18/04
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

11/24/2004 ECOOPER 00000136 181730 5748057

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PATENT
REEL: 016004 FRAME: 0143

**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

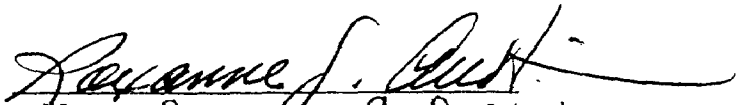
WHEREAS, Assignor is assigning or has assigned all of its rights, title and interests in the United States and throughout the world, in and to the trademarks listed on Schedule B and tradenames listed on Schedule C ("the Trademarks"), to the Intellectual Property Agreement to Assignee; and

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

1

SCHEDULE A

PATENT_NO	ISSUE_DATE	PD_NO	TITLE
5,614,877	03/25/97	093350A	BICONICAL MULTIMODE RESONATOR
5,616,185	04/01/97	L94002	SOLAR CELL WITH INTEGRATED BYPASS DIODE AND METHOD
5,617,108	04/01/97	091063A	SIMPLIFIED TRACKING ANTENNA
5,620,529	04/15/97	095227	LOW DISTURBANCE SOLAR ARRAY
5,626,280	05/06/97	094139	INFRARED TRANSPARENT SOLDERING TOOL AND INFRARED SOLDERING METHOD
5,626,314	05/06/97	095204	PASSIVE INTERMODULATION SHIELD
5,640,082	06/17/97	093428	DUTY CYCLE CONTROLLED SWITCH VARIABLE CAPACITOR CIRCUIT
5,644,243	07/01/97	093277NT	DETECTOR POWER LINEARITY REQUIREMENTS AND VERIFICATION TECHNIQUES FOR TM DIRECT DETECTION RECEIVERS
5,650,240	07/22/97	093483	MULTICELL BATTERY SYSTEM WITH INDIVIDUALLY CONTROLLABLE CELL BYPASSES
5,650,760	07/22/97	095242	MICROWAVE ENCLOSURE
5,652,696	07/29/97	094253	MECHANICALLY CAPTIVATED INTEGRATED CIRCUIT CHIP
5,654,549	08/05/97	094042A	SATELLITE FOCAL PLANE ARRAY IMAGER
5,658,181	08/19/97	094512	DIE AND METHOD FOR APPLYING RADIAL FORCES TO AN ECCENTRIC WORKPIECE
5,659,463	08/19/97	095408	HIGH-EFFICIENCY SUMMING POWER CONVERTER AND METHOD THEREFOR
5,661,733	08/26/97	095023	AUTOMATED TEST INSERTION
5,665,274	09/09/97	094299	ELECTRICALLY CONDUCTIVE BLACK SILICONE PAINT HAVING SPACECRAFT APPLICATIONS
5,667,171	09/16/97	094013	SATELLITE SPIN AXIS STABILIZATION USING A SINGLE DEGREE OF FREEDOM TRANSVERSE MOMENTUM STORAGE DEVICE
5,668,842	09/16/97	094324	HIGH-SPEED DIGITAL-TO-RF CONVERTER
5,673,006	09/30/97	095404	SEAMLESS SWITCH-OVER FREQUENCY SYNTHESIZER
5,673,056	09/30/97	091355A	IDENTICAL SURFACE SHAPED REFLECTORS IN SEMI-TANDEM ARRANGEMENT
5,681,012	10/28/97	092587	SPACECRAFT CONTROL WITH SKEWED CONTROL MOMENT GYROS
5,688,450	11/18/97	093332	METHOD OF MAKING AN ELECTRONIC PACKAGE STRUCTURE UTILIZING ALUMINUM NITRIDE/ALUMINUM COMPOSITE MATERIAL
5,691,627	11/25/97	095373	PUSH-PULL FULL SHUNT SWITCHING BUS VOLTAGE LIMITER WITH CURRENT SENSE CAPABILITY
5,692,707	12/02/97	094024	UNIVERSAL SPACECRAFT ATTITUDE STEERING CONTROL SYSTEM
5,695,888	12/09/97	094474	PRESSUREIZED-GAS ENERGY STORAGE CELL WITH INSULATED CATALYTIC SURFACES
5,699,029	12/16/97	095441	SIMULTANEOUS COUPLING BANDPASS FILTER AND METHOD
5,703,531	12/30/97	094127A	PREDISTORTION LINEARIZER AND METHOD EMPLOYING UNIPLANAR MAGIC T HYBRIDS
5,708,336	01/13/98	095359	THERMAL CONTROL SYSTEM FOR A MOTOR
5,716,029	02/10/98	095158	CONSTANT SUN ANGLE TRANSFER ORBIT SEQUENCE AND METHOD USING ELECTRIC PROPULSION
5,716,459	02/10/98	L95001	MONOLITHICALLY INTEGRATED SOLAR CELL MICROARRAY AND FABRICATION METHOD
5,717,576	02/10/98	095331	DEVICE AND METHOD FOR PROTECTING ELECTRONIC UNITS IN A SATELLITE FROM ELECTRICAL DISTURBANCE
5,717,702	02/10/98	94010A	SCAN TESTING DIGITAL LOGIC WITH DIFFERING FREQUENCIES OF SYSTEM CLOCK AND TEST CLOCK
5,720,824	02/24/98	095440	PROPULSION CLEANING SYSTEM
5,721,503	02/24/98	092635	FLASH ANALOG-TO-DIGITAL CONVERTER WITH LATCHING EXCLUSIVE OR GATES
5,722,709	03/03/98	093507	SEPARATION DEVICE USING A SHAPE MEMORY ALLOY RETAINER
5,724,010	03/03/98	095019	WIDEBAND "Y" JUNCTION ISOLATOR/CIRCULATOR AT V-BAND
5,731,726	03/24/98	93326A	CONTROLLABLE PRECISION ON-CHIP DELAY ELEMENT
5,731,750	03/24/98	094056	SPHERICAL CAVITY MODE TRANSCENDENTAL CONTROL METHODS AND SYSTEMS
5,731,777	03/24/98	095325	RADIO- FREQUENCY ABSORBING FIN BLANKET
5,731,993	03/24/98	095338	NONLINEAR AMPLIFIER OPERATING POINT DETERMINATION SYSTEM AND METHOD
5,732,765	03/31/98	095312	ADJUSTABLE HEAT REJECTION SYSTEM
5,734,278	03/31/98	095117	LOW-POWER, HIGH-RELIABILITY SWITCHING ROTARY PHASE SHIFTER DEVICE
5,735,489	04/07/98	095310	HEAT TRANSPORT SYSTEM FOR SPACECRAFT INTEGRATION
5,738,309	04/14/98	095074	SINGLE AXIS CORRECTION FOR ORBIT INCLINATION
5,743,325	04/28/98	095318A	FLEXIBLE HEAT TRANSPORT DESIGN FOR DEPLOYABLE RADIATOR APPLICATIONS
5,748,057	05/05/98	094366	PHOTONIC BANDGAP CRYSTAL FREQUENCY MULTIPLEXERS AND A PULSE BLANKING FILTER FOR USE THEREWITH