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RECORDATION FORM COVER SHEET

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

1. 16.00

PATENTS ONLY

Docket No. PD-970068

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

1. Name of conveying parties:

HUGHES ELECTRONICS CORPORATION

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance: Assignment

Execution Date: October 6, 2000

2. Name and Address of receiving party

Name: The Boeing Company

Internal Address: M/S 110-WSB43, P.O. Box 2515
Seal Beach, CA 90740-1515Street Address: 2201 Seal Beach Blvd.
Seal Beach, CA 90740-1515Additional name(s) & address(es) attached? ☐ Yes ☒ No

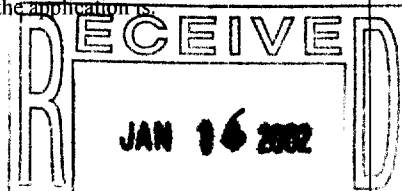
4. Application number(s) or patent number(s): PD-970068

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

A. Patent Application No.(s)

Serial No.: 09/160,681Filed: September 25, 1998

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: The Boeing Company

Internal Address: M/S WSB43, P.O. Box 2515
Seal Beach, CA 90740-1515Street Address: M/S WSB43
2201 Seal Beach Blvd.
Seal Beach, CA 90740-15156. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41). . . . \$ 40.00☐ Enclosed☒ Authorized to be charged to Deposit Account8. Deposit Account number: 18-1730

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*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

Date

11/8/01

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

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

02/04/2002 GTON11 00000217 181730 09160681

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PATENT
REEL: 012531 FRAME: 0376

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

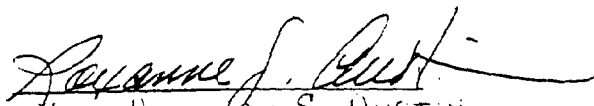
WHEREAS, it was contemplated, at the time of assignment and stated in the Purchase Agreement, that the execution and delivery of papers would be necessary for Assignee, its successors, assigns or representatives to perfect, affirm, record and maintain the title to the Patents and the Trademarks in Assignee,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

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~~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 "A"

PD NO.	SERIAL NO.	FILING DATE	TITLE
970068	09160681	09/25/98	NON-UNIFORM MULTI-BEAM SATELLITE COMMUNICATIONS SYSTEM AND METHOD
970068A	09552333	04/19/00	NON-UNIFORM MULTIBEAM SATELLITE COMMUNICATIONS SYSTEM AND METHOD
970069	09160601	09/25/98	METHOD AND APPARATUS FOR SPACECRAFT AMPLIFICATION OF MULTI-CHANNEL SIGNALS
970070	09160600	09/25/98	DYNAMIC INTERFERENCE OPTIMIZATION METHOD FOR SATELLITES TRANSMITTING MULTIPLE BEAMS WITH COMMON FREQUENCIES
970072	09244575	02/04/99	METHOD FOR IN-ORBIT MULTIPLE RECEIVE ANTENNA PATTERN TESTING
970073	09244576	02/04/99	AN APPARATUS AND METHOD OF TESTING MULTI-BEAM SATELLITE REPEATER IN-ORBIT FROM A SINGLE GROUND STATION USING A SAMPLING AND COMBINING MATRIX
970094A	09145696	09/02/98	(ZINC, CADMIUM, MAGNESIUM) ALUMINATE-GALLATE-CONTAINING ORGANIC-BINDER PAINT AND FILM ARTICLES
970101	09154488	09/16/98	MICROWAVE CAVITY HAVING A REMOVABLE END WALL
970124	09304458	05/03/99	COUPLING MECHANISM FOR TE(011) AND TE(01Q) MODE RESONATORS
970124A	09304328	05/03/99	COUPLING MECHANISM FOR TE(011) AND TE(01Q) MODE RESONATORS
970125A	09360850	07/24/99	MESH TENSIONING, RETENSION AND MANAGEMENT SYSTEMS FOR LARGE DEPLOYABLE REFLECTORS
970133	09426666	10/25/99	TRAVELING WAVE TUBE SYSTEM WITH OUTPUT WAVEGUIDE-COUPLER TERMINATION
970145	09310898	05/12/99	PLANAR VIBRATORY GYROSCOPES
970196	09119091	07/20/98	ELECTROCHEMICAL STORAGE CELL HAVING A CENTRAL CORE PROVIDING MECHANICAL, THERMAL AND ELECTRICAL FUNCTIONS
970239	09376936	08/18/99	DIGITAL BIT SYNCHRONIZER FOR LOW TRANSITION DENSITIES
970239A	09540176	03/31/00	DIGITAL BIT SYNCHRONIZER FOR LOW TRANSITION DENSITIES
970243	08949634	10/14/97	THREE-AXIS INERTIAL ATTITUDE DETERMINATION FOR SPINNING SPACECRAFT
970251	09175849	10/20/98	METHOD AND APPARATUS FOR TESTING PHOTOVOLTAIC SOLAR CELLS USING MULTIPLE PULSED LIGHT SOURCES
970253	09095257	08/10/98	METHODS FOR ACCURATELY INSERTING SATELLITE CONSTELLATIONS INTO COMMON ORBIT PLANES
970253A	09492888	01/27/00	METHODS FOR ACCURATELY INSERTING SATELLITE CONSTELLATIONS INTO COMMON ORBIT PLANES
970255	09251727	03/03/99	METHOD AND APPARATUS FOR CONTROLLING SPACECRAFT ATTITUDE WITH ROTATIONAL STAR TRACKERS
970257	09025762	02/18/98	TRANSISTOR AMPLIFIER MODEL AND CIRCUIT ANALYSIS METHODS
970252	09167052	10/06/98	DUAL SIDEWALL COUPLED ORTHOMODE TRANSDUCER
970270	09504544	02/15/00	HUB MOUNTED BENDING BEAM FOR SHAPE ADJUSTMENT OF SPRINGBACK REFLECTORS
970272	09160807	09/25/98	WAVEGUIDE SWITCH MATRIX USING JUNCTIONS MATCHED IN ONLY ONE STATE
970277	09175850	10/20/98	ULTRA LIGHT WEIGHT METALLIZED MYLAR OF KAPTON COVER
970298	09135606	08/18/98	BLACK THERMAL CONTROL FILM AND THERMALLY CONTROLLED MICROWAVE DEVICE
970299	09044630	03/19/98	FAST, HIGHLY ACCURATE FREQUENCY MEASUREMENT TECHNIQUE
970323	09262999	03/05/99	COMPACT WAVEGUIDE T SWITCH
970326	09144375	08/31/98	ROCKET ENGINE HAVING A TRANSITION ATTACHMENT BETWEEN A COMBUSTION CHAMBER AND AN INJECTOR
970327	09144377	08/31/98	FABRICATION OF A ROCKET ENGINE WITH A TRANSITION STRUCTURE BETWEEN THE COMBUSTION CHAMBER AND THE INJECTOR
970328	09144376	08/31/98	ROCKET ENGINE WITH INTERNAL CHAMBER STEP STRUCTURE
970352	09090727	06/04/98	INTRASATELLITE WIRELESS COMMUNICATION
970355	09225956	01/06/99	REDUNDANT COAXIAL SWITCH
970360	09106835	06/30/98	METHOD AND APPARATUS FOR GENERATING A SATELLITE CONTROL STRATEGY
970393	09089798	06/03/98	HIGH CONDUCTANCE HEATPIPE INTERFACE UTILIZING TAPERED FLANGES
970426	09222611	12/23/98	OPTOELECTRONIC ANALOG-TO-DIGITAL CONVERTER
970451	09285423	04/02/99	SATELLITE DELIVERED TEXT
970458	09119301	07/20/98	METHOD FOR REDUCING CROSS-POLAR DEGRADATION IN MULTI-FEED DUAL OFFSET REFLECTOR ANTENNAS

October 4, 2000

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PATENT

RECORDED: 01/16/2002

REEL: 012531 FRAME: 0379