

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT				
NATURE OF CONVEYANCE:	MERGER				
EFFECTIVE DATE:	09/05/2000				
CONVEYING PARTY DATA					
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Hughes Electronics Corporation</td> <td>09/05/2000</td> </tr> </tbody> </table>		Name	Execution Date	Hughes Electronics Corporation	09/05/2000
Name	Execution Date				
Hughes Electronics Corporation	09/05/2000				
RECEIVING PARTY DATA					
Name:	The Boeing Company				
Street Address:	100 N. Riverside Plaza				
City:	Chicago				
State/Country:	ILLINOIS				
Postal Code:	60606				
PROPERTY NUMBERS Total: 1					
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>09597705</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	09597705
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Application Number:	09597705				
CORRESPONDENCE DATA					
Fax Number:					
Phone:	562-797-9026				
Email:	laverne.r.gilliam@boeing.com				
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>					
Correspondent Name:	The Boeing Company				
Address Line 1:	2201 Seal Beach Boulevard				
Address Line 4:	Seal Beach, CALIFORNIA 90740				
ATTORNEY DOCKET NUMBER:	PD-990259				
NAME OF SUBMITTER:	John R. Rafter				
Total Attachments: 3 source=990259Assignment#page1.tif source=990259Assignment#page2.tif source=990259Assignment#page3.tif					

CH \$40.00 09597705

**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

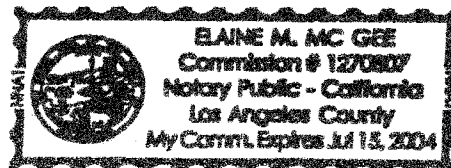
AGREED TO AND ACCEPTED BY:

ASSIGNEE:

BY:

Brent Reed
Name:

Title:



Confirmation of Assignment of Patent and Trademark Rights

PD NO.	SERIAL NO.	FILING DATE	TITLE
990176	09500753	02/08/00	FOCUS CONTROL FOR SEARCH LIGHTS
990177	09580286	05/30/00	SOLAR MODULE ARRAY WITH RECONFIGURABLE TILE
990181	09559602	04/27/00	IMPROVED SPACECRAFT POINTING PERFORMANCE VIA OPTIMIZED SOLAR ARRAY ORIENTATION
990183	09625690	07/26/00	THERMAL SHOCK AVOIDANCE FOR SATELLITE SOLAR PANELS
990205	09613873	07/10/00	ALTERNATE GROUNDING METHOD TO PRECLUDE SPACECRAFT CHARGING
990208	09559708	05/09/00	ION THRUSTER WITH ION-EXTRACTION GRIDS HAVING COMPOUND CONTOUR SHAPES
990214	09546931	04/11/00	VOTED PROCESSING SYSTEM
990215	09516260	02/29/00	TRIPLE REDUNDANT SELF SCRUBBING INTEGRATED CIRCUIT
990216	09500759	02/08/00	ERROR DETECTION AND CORRECTION INTERLEAVE METHOD
990221	09576651	05/22/00	LIGHTWEIGHT SOLAR MODULE AND METHOD OF FABRICATION
990222	09539677	03/30/00	INFRARED ENHANCED PULSE SOLAR SIMULATOR
990226	09645101	08/23/00	TAPE CASTING MACHINE WITH PROFILED DOCTOR BLADE
990235	09615019	07/13/00	LINEARIZED TRAVELING WAVE TUBE USING PASSIVE PRE-DISTORTION LINEARIZER
990236	09619176	07/19/00	RESONATOR TUNING SYSTEM
990241	09629030	07/31/00	SYSTEM SIGNALING FOR PAYLOAD FAULT DETECTION AND ISOLATION
990247	09619543	07/19/00	SINGLE EVENT UPSET (SEU) HARDENING OF A SEMICONDUCTOR DEVICE USING A BURIED ELECTRODE
990249	MLD/	08/29/00	LOW-VOLTAGE-DROP, SPRING-ACTIVATED BYPASS OF FAILED BATTERY CELL
990257	09492723	01/27/00	SPACECRAFT PROTECTED BY A COATING INCLUDING PYROELECTRIC/FERROELECTRIC PARTICLES, AND THE COATING MATERIAL
990259	09597705	06/16/00	HIGH FIDELITY TIME DOMAIN FOR SPACECRAFT EMULATION SYSTEMS
990263	09607813	06/30/00	CORRECTION OF ORBITAL SPACECRAFT STEERING CONTROL LAW FOR UNEXPECTED ORBITAL INCLINATION EFFECTS
990264	09619042	07/19/00	METHOD AND APPARATUS FOR ZOOMING AND RECONFIGURING CIRCULAR BEAMS FOR SATELLITE COMMUNICATIONS
990278	09619350	07/19/00	FLUXLESS SOLDER ATTACHMENT OF A MICROELECTRONIC CHIP TO A SUBSTRATE
990285	09557378	04/25/00	BEACON-ASSISTED SPACECRAFT ATTITUDE CONTROL SYSTEMS AND METHODS
990286	09593182	06/13/00	SLOT-COUPLED PATCH REFLECTARRAY ELEMENT FOR ENHANCED GAIN-BANDWIDTH PERFORMANCE
990288	09625392	07/26/00	SYSTEM AND METHOD FOR THE CALIBRATING OF THE INTER-STAR-TRACKER MISALIGNMENTS IN A STELLAR INERTIAL ATTITUDE DETERMINING SYSTEM
990289	09624270	07/24/00	STABLE AND VERIFIABLE STATE ESTIMATION METHODS AND SYSTEMS WITH SPACECRAFT APPLICATIONS
990296	09516854	03/02/00	ATTITUDE DETERMINATION SYSTEM AND METHOD
990297	09507099	02/17/00	SYSTEM FOR DETERMINING STARS IN A TRACKER FIELD OF VIEW
990300	MLD/	08/25/00	STELLAR ATTITUDE-CONTROL SYSTEMS AND METHODS WITH WEIGHTED MEASUREMENT-NOISE COVARIANCE MATRICES
990303	09573249	05/18/00	MICROELECTRONIC DEVICE STRUCTURE WITH METALLIC INTERLAYER BETWEEN SUBSTRATE AND DIE
990306	09588446	06/06/00	SEMICONDUCTOR POWER GENERATOR BASED ON A SOURCE IONS AND ALPHA PARTICLES
200013	09636085	08/09/00	GRIDDED REFLECTOR ANTENNA
200037	09629861	08/01/00	SPACECRAFT ATTITUDE CONTROL SYSTEMS WITH DYNAMIC METHODS AND STRUCTURES FOR PROCESSING STAR TRACKER SIGNALS
200059	60188126	03/09/00	SAFING MODE FOR HIGH MOMENTUM STATES IN BODY STABILIZED SPACECRAFT
200068	09629026	07/31/00	STRUCTURE WITH BLENDED POLYMER CONFORMAL COATING OF CONTROLLED ELECTRICAL RESISTIVITY
200134	09617467	07/17/00	GRADED ELECTRODE LEADS FOR A "RABBIT EAR" STACK CONFIGURATION BATTERY CELL
200221	09628779	07/29/00	SYSTEM FOR STAR CATALOG EQUALIZATION TO ENHANCE ATTITUDE DETERMINATION