

Form PTO-1595 (Rev. 09/04)
OMB No. 0651-0027 (exp. 6/30/2005)

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

RECORDATION FORM COVER SHEET PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)/Execution Date(s):

Hughes Electronics Corporation

Execution Date(s) February 3, 2003

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

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other _____

2. Name and address of receiving party(ies)

Name: The Boeing Company

Internal Address: _____

Street Address: 100 North Riverside Plaza

City: Chicago

State: IL

Country: USA Zip: 60606-1596

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application or patent number(s):

☐ This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

5,179,363 and 4,947,467

Additional numbers attached? ☐ Yes ☒ No

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

Name: Terje Gudmestad

Internal Address: Boeing Management Company

Street Address: 15460 Laguna Canyon Road

City: Irvine

State: CA Zip: 92618

Phone Number: (949) 790-1374

Fax Number: (949) 790-1213

Email Address: terje.gudmestad@boeing.com

6. Total number of applications and patents involved:

2

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 80.00

- ☐ Authorized to be charged by credit card
☒ Authorized to be charged to deposit account
☐ Enclosed
☐ None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____

Expiration Date _____

b. Deposit Account Number 18-1730

Authorized User Name Henry G. Kohlmann

9. Signature:


Signature

December 6, 2004

Date

Henry G. Kohlmann

Name of Person Signing

(Reg No. 26,672)

Total number of pages including cover sheet, attachments, and documents: 3

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

CH \$80.00 181730 5179363

700136307

PATENT
REEL: 015428 FRAME: 0305

CONFIRMATION BY HUGHES ELECTRONICS CORPORATION OF BOEING'S OWNERSHIP OF CERTAIN PATENTS

This Confirmation is effective the 3rd day of February 2003 and is executed in duplicate originals.

WHEREAS, Hughes Electronics Corporation, a corporation of the State of Delaware, United States of America, ("HUGHES") was the owner of a right, title and interest in and to any invention disclosures, applications for patent, letters patent, reissues, reexaminations, divisions, parents, continuations, continuations-in-part, or extensions thereof which may have been or shall be granted thereon in the United States, and any foreign country throughout the world for inventions listed on Attachment I hereto, said inventions being related to the satellite business and originating in business units that were part of the satellite business of HUGHES, ("The Patents"); and

WHEREAS, HUGHES, Hughes Space and Communications Company ("HSC") and The Boeing Company ("Boeing") were parties to an Intellectual Property Agreement dated as of October 6, 2000 ("The Agreement") wherein HUGHES assigned, to Boeing, HSC Intellectual Property (as defined in The Agreement) including without limitation the patents and invention disclosures listed in Schedule A thereto; and

WHEREAS, The Patents were not listed in Schedule A of The Agreement; and

WHEREAS, HUGHES and BOEING, both desire to confirm that BOEING now has all of the rights, title and interest that HUGHES had or has in and to The Patents; and

NOW THEREFORE, to whom it may concern, be it known that pursuant to the obligations herein and other good and valuable consideration, of which receipt is hereby acknowledged, subject to pre-existing rights and to the extent of their lawful right to do so, HUGHES and BOEING confirm and agree as follows:

1. **BOEING** has all of the rights, title and interest that **HUGHES** had or has in and to **The Patents**; and
2. **HUGHES** has a license to **The Patents**, said license having the same scope and subject to the same obligations as the license retained by **HUGHES** as set forth in **The Agreement**.

CONFIRMED AND AGREED TO BY HUGHES ELECTRONICS CORPORATION

Signature: [Signature]
Date of Signature: February 3, 2003

Signatory's Name: Michael W. Sales
Signatory's Title: Vice President, Asst. General Counsel & Assistant Secretary

STATE OF CALIFORNIA
COUNTY OF LOS ANGELES

ON February 3, 2003 before me, JANET E. SHIBATA, a Notary Public in and for said State, personally appeared MICHAEL W. SALES

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.

[Signature]
Notary Public



CONFIRMED AND AGREED TO BY THE BOEING COMPANY:

Signature: [Signature]
Date of Signature: February 17, 2003

Signatory's Name: Gene G. Partlow
Signatory's Title: Vice President, Intellectual Property Business

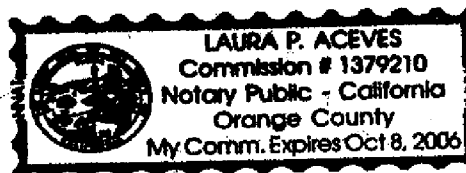
STATE OF CALIFORNIA
COUNTY OF ORANGE

ON 2-17-03 before me, Laura P. Aceves, a Notary Public in and for said State, personally appeared Gene G. Partlow

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.

[Signature]
Notary Public



ATTACHMENT I TO "CONFIRMATION BY HUGHES ELECTRONICS CORPORATION OF BOEING'S OWNERSHIP OF U.S. PATENTS AND CORRESPONDING FOREIGN PATENT APPLICATIONS AND PATENTS"

PATENT NO.	ISSUE DATE	PD-NO.	TITLE
4,710,588	12/01/87	85079	COMBINED PHOTOVOLTAIC-THERMOELECTRIC SOLAR CELL AND SOLAR CELL ARRAY
4,753,683	06/28/88	85072A	GALLIUM ARSENIDE SOLAR CELL SYSTEM
4,797,682	01/10/89	86469	DETERMINISTIC THINNED APERTURE PHASED ANTENNA ARRAY
4,799,065	01/17/89	79202A	RECONFIGURABLE BEAM ANTENNA
4,947,467	08/07/90	87305	TRAVELING-WAVE TUBE SLOW-WAVE STRUCTURE WITH INTEGRAL CONDUCTIVELY-LOADED BARREL AND METHOD OF MAKING SAME
5,112,438	05/12/92	90221	PHOTOLITHOGRAPHIC METHOD FOR MAKING HELICES FOR TRAVELING WAVE TUBES AND OTHER CYLINDRICAL OBJECTS
5,179,363	01/12/93	89547	STRESS RELIEVED IRIS IN A RESONANT CAVITY STRUCTURE
5,064,574	11/12/91	88070A	METHOD AND COMPOSITION FOR PROVIDING ELECTROSTATIC DISCHARGE PROTECTION FOR SPACECRAFT