

11-25-1998

FORM PTO-1595  
(Rev. 6-93)  
OMB No. 0651-0011 (exp. 4/94)



U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

RE

100905905  
PATENTS ONLY

RET

PD-980

U.S. P.T.O.  
0958  
11/18/98

83-81-11  
me

Customer No.: 020991

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

<p>1. Name of conveying party(ies):</p> <p>Shi-Chang Wu Wilbert Copeland</p> <p>Additional Name(s) of conveying party(ies) attached? yes <input type="checkbox"/> no <input checked="" type="checkbox"/></p>	<p>2. Name and address of receiving party(ies):</p> <p>Name: HUGHES ELECTRONICS CORPORATION</p> <p>Internal Address: Bldg. 001, M/S A109 P.O. Box 956 El Segundo, California 90245-0956</p>
--	---

<p>3. Nature of Conveyance:</p> <p><input checked="" type="checkbox"/> Assignment                      <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement              <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____</p> <p>Execution Dates: <u>November 13, 1998.</u></p>	<p>Street Address: Bldg. 001, M.S. A109 200 North Sepulveda Blvd. El Segundo, California 90245-0956</p> <p>Additional name(s) &amp; address(es) attached? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no</p>
--	---

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: Nov. 13, 1998.

A. Patent Application No.(s)	B. Patent No.(s)
Additional numbers attached? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no	

<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: Patent Records Administration Internal Address: HUGHES ELECTRONICS CORPORATION Building 001, M/S A109 P.O. Box 956 El Segundo, California 90245-0956</p> <p>Street Address: 200 North Sepulveda Boulevard El Segundo, California 90245-0956</p>	<p>6. Total number of applications and patents involved: [ 1 ]</p> <p>7. Total fee (37 CFR 3.41)..... \$40.00</p> <p><input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account</p> <p>8. Deposit account number: 50-0383</p>
---	--

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 Reg. No. 32,232 \_\_\_\_\_ Signature \_\_\_\_\_ Date November 18, 1998

Total number of pages comprising cover sheet: [ 3 ]

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231

PATENT  
REEL: 9602 FRAME: 0457

**ASSIGNMENT**

Page 1 of 2

Customer No. 020991

PD-980041

WHEREAS, I, as below named sole inventor (if only one name is listed below) or joint inventor (if plural names are listed below) of the city and state as stated below next to my name, have invented a(an) **RECONFIGURABLE ANALOG CHANNEL PROCESSOR FOR MULTIBEAM SATELLITES** for which application for Letters Patent of the United States has been executed by me on this day, or (if the following is completed) filed on \_\_\_\_\_ as Serial No. \_\_\_\_\_ ; and

WHEREAS, **HUGHES ELECTRONICS CORPORATION**, (hereinafter referred to as **HUGHES**), a Delaware Corporation, having its principal place of business in El Segundo, California, is desirous of acquiring the entire and exclusive right, title and interest in, to and under said invention, said application and any and all Letters Patent that may be granted therefor in the United States and throughout the world;

NOW, THEREFORE, in consideration of the obligations voluntarily assumed by me and set forth in an invention agreement between me and my employer, effective the date as stated below next to my name, and other good and valuable consideration, receipt of which is hereby acknowledged, I do hereby sell, assign and transfer to HUGHES, its successors, assigns or other legal representatives, the entire and exclusive right, title and interest in and to said invention invented by me, to said application and any and all applications which are continuations, continuations-in- part, divisions or substitutes of said application and any and all Letters Patent that may be granted therefor in the United States and throughout the world on any of said applications and to any and all reexaminations, reissues, renewals or extensions of said Letters Patent in the United States and throughout the world for the full term or terms for which said Letters patent may be granted in the United States and throughout the world; authorize and request The Commissioner of Patents and Trademarks of the United States and all foreign countries to issue all such Letters Patent to said HUGHES, its successors, assigns or other legal representatives; covenant that no assignment, sale, agreement, transfer or encumbrance has been, or will be, made or entered into which would conflict with this assignment, sale and transfer; and agree to communicate to HUGHES, its successors, assigns or other legal representatives, upon request and at no cost or expense to me, any facts known by me respecting said invention, do all lawful acts, including the execution and delivery of all papers and proper oaths and giving of testimony that is deemed necessary or desirable by HUGHES, its successors, assigns or other legal representatives with regard to said invention for protecting, obtaining, maintaining and enforcing any and all of said letters Patent in the United States and throughout the world for said invention and for perfecting, affirming, recording and maintaining the title of HUGHES, its successors, assigns or other legal representatives, and generally cooperate to the fullest extent in all matters pertaining to said invention, and any and all of said Letters Patent and the title thereto in HUGHES, its successors, assigns or other legal representatives.

IN WITNESS WHEREOF, I have executed this instrument.

FULL NAME OF SOLE OR JOINT INVENTOR <b>SHIH-CHANG WU</b>	INVENTOR'S SIGNATURE <i>Shih-Chang Wu</i>	DATE 11/13/98
RESIDENCE (CITY AND STATE) 2333 HITCHCOCK DRIVE, ALHAMBRA, CA 91803		INVENTION AGREEMENT DATE JUNE 16, 1995

FULL NAME OF SOLE OR JOINT INVENTOR <b>WILBERT B. COPELAND</b>	INVENTOR'S SIGNATURE <i>Wilbert Copeland</i>	DATE 11/13/98
RESIDENCE (CITY AND STATE) 5605 CHARITON AVE LA, CA. 90056		INVENTION AGREEMENT DATE NOVEMBER 18, 1985

STATE OF California )  
 COUNTY OF Los Angeles )

SS:

On November 13, 1998 before me, T. MONTGOMERY,  
 a Notary Public in and for said State, personally appeared \_\_\_\_\_  
SHIH-CHANG WU and WILBERT B. COPELAND

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.

*T. Montgomery*  
 Notary Public

