



101381447

PD-200029

MRD 5-22-0000

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

1. Name of conveying party(ies):  
  
FRANK A. HAGEN, RICHARD FLAMMANG, KAR YUNG,  
DONALD C. D. CHANG  
  
Additional Name(s) of conveying party(ies) attached?  
  
yes  no

2. Name and address of receiving party(ies):  
  
Name: HUGHES ELECTRONICS CORPORATION  
  
Internal Address: Bldg. 001, M/S A109  
PO Box 956  
200 N. Sepulveda Blvd.  
El Segundo, CA 90245-0956

3. Nature of Conveyance:  
  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other  
  
Execution Date: May 17, 2000; May 18, 2000 & May 22, 2000

Street Address: 200 N. Sepulveda Blvd.  
P.O. Box 956  
El Segundo, California 90245  
  
Additional name(s) & address(es) attached?  yes  no

4. Application number(s) or patent number(s): PD-200029  
  
If this document is being filed together with a new application, the execution date of the application is May 17, 2000; May 18, 2000 & May 22, 2000.  
  
A. Patent Application No.(s) | B. Patent No.(s)  
  
Additional numbers attached?  yes  no

5. Name and address of party to whom correspondence concerning document should be mailed:  
  
Name: HUGHES ELECTRONICS CORPORATION  
Internal Address: Bldg. 001, M/S A109  
PO Box 956  
200 N. Sepulveda Blvd.  
El Segundo, CA 90245-0956  
  
**PLEASE ASSOCIATE THIS APPLICATION WITH CUSTOMER NO. 020991.**

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:  
  
50-0383  
  
(Attached 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.*  
  
MICHAEL W. SALES  
Name of Person Signing  
  
  
Signature  
  
May 22, 2000  
Date  
  
Total number of pages comprising cover sheet: [ ]

**ASSIGNMENT**

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) **MULTI-NODE POINT-TO-POINT SATELLITE COMMUNICATION SYSTEM EMPLOYING MULTIPLE GEO 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 FRANK A. HAGEN	INVENTOR'S SIGNATURE <i>Frank A. Hagen</i>	DATE 5/17/00
RESIDENCE (CITY AND STATE) 2309 Via Rivera, Palos Verdes Estates, California 90274		INVENTION AGREEMENT DATE March 1, 1978
FULL NAME OF SOLE OR JOINT INVENTOR RICHARD FLAMMANG	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE) 1633 First Street, Manhattan Beach, California 90266		INVENTION AGREEMENT DATE May 1, 1984
FULL NAME OF SOLE OR JOINT INVENTOR KAR W. YUNG	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE) 4738 Narrot Street, Torrance, California 90503		INVENTION AGREEMENT DATE December 3, 1979
FULL NAME OF SOLE OR JOINT INVENTOR DONALD C. D. CHANG	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE) 2350 Moberly Court, Thousand Oaks, California 91360		INVENTION AGREEMENT DATE September 11, 1978
FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE)		INVENTION AGREEMENT DATE

STATE OF CALIFORNIA )  
COUNTY OF LOS ANGELES )

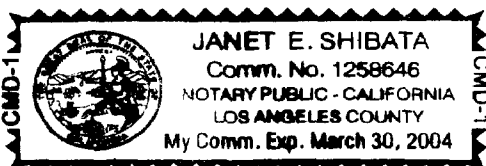
SS:

On MAY 17, 2000 before me, JANET E. SHIBATA,

a Notary Public in and for said State, personally appeared  
FRANK A. HAGEN,

who personally known to me or ~~X~~ 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.



*Janet E. Shibata*  
Notary Public

IN WITNESS WHEREOF, I have executed this instrument.

FULL NAME OF SOLE OR JOINT INVENTOR FRANK A. HAGEN	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE) 2309 Via Rivera, Palos Verdes Estates, California 90274		INVENTION AGREEMENT DATE March 1, 1978
FULL NAME OF SOLE OR JOINT INVENTOR RICHARD FLAMMANG	INVENTOR'S SIGNATURE <i>Richard Flammang</i>	DATE 5-18-00
RESIDENCE (CITY AND STATE) 1633 First Street, Manhattan Beach, California 90266		INVENTION AGREEMENT DATE May 1, 1984
FULL NAME OF SOLE OR JOINT INVENTOR KAR W. YUNG	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE) 4738 Narrot Street, Torrance, California 90503		INVENTION AGREEMENT DATE December 3, 1979
FULL NAME OF SOLE OR JOINT INVENTOR DONALD C. D. CHANG	INVENTOR'S SIGNATURE <i>Donald C. D. Chang</i>	DATE 5-18-2000
RESIDENCE (CITY AND STATE) 2350 Moberly Court, Thousand Oaks, California 91360		INVENTION AGREEMENT DATE September 11, 1978
FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE)		INVENTION AGREEMENT DATE

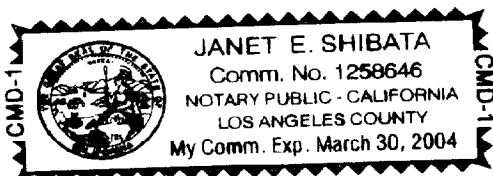
STATE OF CALIFORNIA )  
COUNTY OF LOS ANGELES ) SS:

On May 18, 2000 before me, JANET E. SHIBATA,

a Notary Public in and for said State, personally appeared  
DONALD C.D. CHANG and RICHARD FLAMMANG,

o personally known to me or  proved to me on the basis of satisfactory evidence to be the person(s) whose name(s)  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.



*Janet E. Shibata*  
Notary Public

IN WITNESS WHEREOF, I have executed this instrument.

FULL NAME OF SOLE OR JOINT INVENTOR FRANK A. HAGEN	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE) 2309 Via Rivera, Palos Verdes Estates, California 90274	INVENTION AGREEMENT DATE March 1, 1978	
FULL NAME OF SOLE OR JOINT INVENTOR RICHARD FLAMMANG	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE) 1633 First Street, Manhattan Beach, California 90266	INVENTION AGREEMENT DATE May 1, 1984	
FULL NAME OF SOLE OR JOINT INVENTOR KAR W. YUNG	INVENTOR'S SIGNATURE <i>K. W. Yung</i>	DATE 5/22/2000
RESIDENCE (CITY AND STATE) 4738 Narrot Street, Torrance, California 90503	INVENTION AGREEMENT DATE December 3, 1979	
FULL NAME OF SOLE OR JOINT INVENTOR DONALD C. D. CHANG	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE) 2350 Moberly Court, Thousand Oaks, California 91360	INVENTION AGREEMENT DATE September 11, 1978	
FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE)	INVENTION AGREEMENT DATE	

STATE OF CALIFORNIA )  
 )  
 COUNTY OF LOS ANGELES )

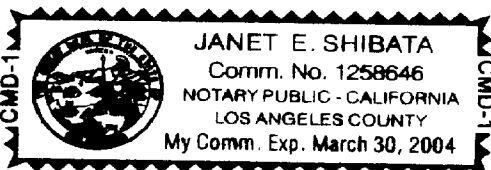
SS:

On May 22, 2000 before me, JANET E. SHIBATA,

a Notary Public in and for said State, personally appeared  
KAR W. YUNG

o personally known to me or ~~X~~ 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.



*Janet E. Shibata*  
 Notary Public