

06-06-2000

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PD-980233

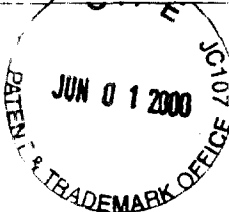
101374654

To the Honorable Commissioner of Patents & Trademarks

original documents or copy thereof

1. Name of conveying party(ies):  
 T. G. Vishwanath  
 Michael Parr  
 Zhen-Liang Shi  
 Simha Erlich

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 Dates: April 19, 2000, April 19, 2000, May 30 2000  
 and April 27, 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):  
 If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No (s) 06/05/2000 KZEMDIE 0000036 500383 09447684 03 FC:581 00.00 CH	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*

John T. Whelan [Signature] 6 5 3 0 0  
 Name of Person Signing Signature Date

Total number of pages comprising cover sheet: [ 1 ]

**ASSIGNMENT**Page 1 of 3  
PD-980233

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) **Acquisition Mechanism for a Mobile Satellite System** 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 November 23, 1999 as Serial No 09/447,685; 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.

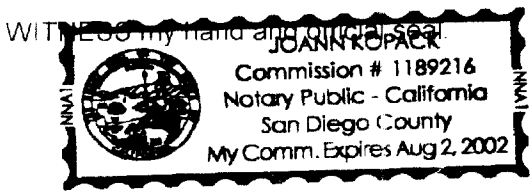
IN WITNESS WHEREOF, I have executed this instrument.

FULL NAME OF SOLE OR JOINT INVENTOR T. G. Vishwanath	INVENTOR'S SIGNATURE <i>T. G. Vishwanath</i>	DATE 4/19/00
RESIDENCE (CITY AND STATE) San Diego, California	INVENTION AGREEMENT DATE 2/26/90	
FULL NAME OF SOLE OR JOINT INVENTOR Michael Parr	INVENTOR'S SIGNATURE <i>Michael Parr</i>	DATE 4/19/00
RESIDENCE (CITY AND STATE) Del Mar, California	INVENTION AGREEMENT DATE 4/4/83	
FULL NAME OF SOLE OR JOINT INVENTOR Zhen-Liang Shi	INVENTOR'S SIGNATURE <i>Zhen-Liang Shi</i>	DATE 5/30/00
RESIDENCE (CITY AND STATE) Germantown Maryland	INVENTION AGREEMENT DATE	
FULL NAME OF SOLE OR JOINT INVENTOR Simha Erlich	INVENTOR'S SIGNATURE <i>Simha Erlich</i>	DATE 4/27/00
RESIDENCE (CITY AND STATE) Haifa, Israel	INVENTION AGREEMENT DATE	

STATE OF California  
COUNTY OF San Diego

SS:

On April 19, 2000 before me, Joann Kopack  
a Notary Public in and for said State, personally appeared T.G. Vishwanath and Michael Parr  
 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.



Notary Public Joann Kopack

STATE OF Maryland  
COUNTY OF Frederick

SS

On May 3, 2000 before me, Crystal L Brooks  
a Notary Public in and for said State, personally appeared Zhen-Liang Shi  
 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 Crystal L Brooks  
  
CRYSTAL L. BROOKS  
Notary Public  
Frederick County  
Maryland  
My Commission Expires July 31, 2002

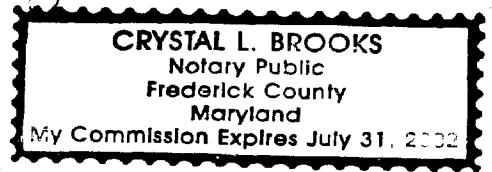
STATE OF Maryland  
COUNTY OF Frederick

SS:

On April 27, 2000 before me, Crystal L. Brooks  
a Notary Public in and for said State personally appeared Simha Elich  
 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 Crystal L Brooks



STATE OF \_\_\_\_\_  
COUNTY OF \_\_\_\_\_

SS

On \_\_\_\_\_ before me, \_\_\_\_\_  
a Notary Public in and for said State personally appeared \_\_\_\_\_  
\_\_\_\_\_ 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 \_\_\_\_\_

**COMBINED DECLARATION FOR PATENT APPLICATION  
AND POWER OF ATTORNEY**



- Original
- Continuation
- Division
- Continuation-in-part
- Supplemental

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: **Acquisition Mechanism for a Mobile Satellite System** the specification of which

(check one)  is attached hereto, was filed on November 23, 1999 as Application Serial No. 09/447,684 and (a) [other than supplemental] was amended on or (b) [supplemental] with amendments through \_\_\_\_\_

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by an amendment referred to above.

I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119(a)-(d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed

Prior Foreign Application(s)

Priority Claimed  
 Yes  No

Number	Country	Day/Month/Year Filed

I hereby claim foreign priority benefits under Title 35, United States Code, §119(e) of any provisional application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed

Priority Claimed  
 Yes  No

<u>60,109,671</u>	<u>November 24, 1998</u>	<u>Pending</u>
Application Serial No	Filing Date	Status

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code §112, I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Application Serial No	Filing Date	Status (patented, pending, abandoned)

I hereby appoint the following attorneys, or agent and attorneys, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

John T. Whelan	Registration No. 32,448
Michael W. Sales	Registration No. 30,213
Craig L. Plastrik	Registration No. 41,254



Address all telephone calls to: (301) 428-7172

Address all correspondence to **Customer Number 020991 (Hughes Electronics Corporation, Patent Docket Administration, Bldg 001, M/S A109, PO Box 956, El Segundo, California 90245-0956).**

I hereby declare that all statement made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such false statements may jeopardize the validity of the application or any patent issued thereon

FULL NAME OF SOLE OR JOINT INVENTOR T. G. Vishwanath	INVENTOR'S SIGNATURE <i>T. G. Vishwanath</i>	DATE 4/19/00
RESIDENCE (CITY AND STATE) San Diego, California	CITIZENSHIP Indian	
POST OFFICE ADDRESS 11706 Scripps Creek Drive, San Diego, California 92131		
FULL NAME OF SOLE OR JOINT INVENTOR Michael Parr	INVENTOR'S SIGNATURE <i>Michael Parr</i>	DATE 4/19/00
RESIDENCE (CITY AND STATE) Del Mar, California	CITIZENSHIP New Zealand	
POST OFFICE ADDRESS 13606 Mira Montana Drive, Del Mar, California 92014		
FULL NAME OF SOLE OR JOINT INVENTOR Zhen-Liang Shi	INVENTOR'S SIGNATURE <i>Zhen-Liang Shi</i>	DATE 5/30/00
RESIDENCE (CITY AND STATE) Germantown, Maryland	CITIZENSHIP Canada	
POST OFFICE ADDRESS 13554 Sanderling Place, Germantown, Maryland 20874		
FULL NAME OF SOLE OR JOINT INVENTOR Simha Erlion	INVENTOR'S SIGNATURE <i>Simha Erlion</i>	DATE 4/27/00
RESIDENCE (CITY AND STATE) Haifa, Israel	CITIZENSHIP Israel	
POST OFFICE ADDRESS 62 Horev Street, Haifa 34343 Israel		