

02-06-2001

U.S. DEPARTMENT OF COMMERCE  
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PATENT  
Attorney Docket No. 200316

1-24-01

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2. Nature of Conveyance:

- Assignment                       Security Agreement
- License                               Change of Name
- Merger                                Other:

JC929 U.S. PTO  
09/768726  
01/24/01

3. Conveying Party(ies):

Mark if additional names of conveying parties attached.

Name Bassel Beidas	Execution Date: 1/23/2001 (m/d/yyyy)
Name Olga Ritterbush	Execution Date: 1/19/2001 (m/d/yyyy)
Name Stanley Kay	Execution Date: 1/23/2001 (m/d/yyyy)
Name Yezdi Antia	Execution Date: 1/23/2001 (m/d/yyyy)

4. Receiving Party:

Name: Hughes Electronics Corporation  
Address: 200 North Sepulveda Blvd.  
El Segundo, CA 90245-0956

5. Correspondent Name and Address:

Name: Hughes Electronics Corporation  
Address: Patent Docketing Administration  
P.O. Box 956  
Bldg. 1, Mail Stop A109  
El Segundo, CA 90245-0956

Please associate this document and the attached documents with customer no. 020991.

6. Application Number(s) or Patent Number(s):

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Patent Application Number(s)

Patent Number(s)

If this document is being filed together with a new Patent Application, enter the date that the patent application was executed by the first named inventor. 1/23/2001 (m/d/yyyy)

7. Patent Cooperation Treaty (PCT) Numbers:

Enter PCT application number(s) <u>only</u> if a U.S. Application Number has not been assigned.	PCT	PCT	PCT
	PCT	PCT	PCT

8. Number of Properties: Enter the total number of properties involved: 1.

9. Fee Transmittal: Fee amount for listed properties (37 CFR 3.41): \$ 40.00

Method of Payment:  Enclosed     Deposit Account    Deposit Account No. 50-0383

Authorization to charge additional fees:  Yes     No

10. 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. Charges to deposit account are authorized as indicated herein.

Craig L. Plastrik, Reg. No. 41,254

24 January 2001

Name of Person Signing

Signature

Date

Total number of pages comprising cover sheet: 2

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Additional Name(s) of Conveying Parties:

Name:                      Execution Date

Bala Subramaniam              January 23, 2001

## ASSIGNMENT

Page 1 of 2  
Attorney Docket No: PD-200316

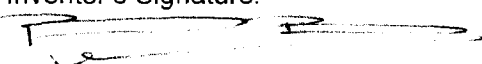
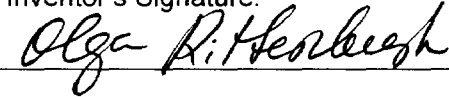

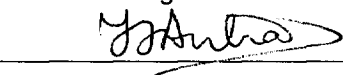
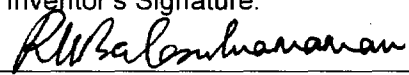
WHEREAS, I, as below named sole inventor (if only one name is listed below) or joint inventor (if plural names are listed below) of the city and state as stated below next to my name, have invented a **Method and Apparatus for Tracking a Synchronization Signal**:

- for which application for Letters Patent of the United States has been executed by me on this day; or  
 which is embodied in U.S. Patent Application Serial No. \_\_\_\_\_ filed on \_\_\_\_\_.

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: Bassel Beidas	Inventor's Signature: 	Date: 1/23/2001
Residence (City and State) Alexandria, Virginia		INVENTION AGREEMENT DATE
Full Name of Joint Inventor: Olga Ritterbush	Inventor's Signature: 	Date: 1/19/2001
Residence (City and State) Rockville, Maryland		INVENTION AGREEMENT DATE
Full Name of Joint Inventor: Stanley Kay	Inventor's Signature: 	Date: 1/23/01
Residence (City and State) Rockville, Maryland		INVENTION AGREEMENT DATE
Full Name of Joint Inventor: Yezdi Antia	Inventor's Signature: 	Date: 1-23-01
Residence (City and State) Gaithersburg, Maryland		INVENTION AGREEMENT DATE
Full Name of Joint Inventor: Bala Subramaniam	Inventor's Signature: 	Date: 1/23/01
Residence (City and State) Montgomery Village, Maryland		INVENTION AGREEMENT DATE

STATE OF Maryland  
COUNTY OF Montgomery

SS:

On January 23, 2001 before me, Linda Harris

a Notary Public in and for said State, personally appeared Bassel Beidas  
 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

Linda Harris

LINDA D. HARRIS  
NOTARY PUBLIC STATE OF MARYLAND  
My Commission Expires August 1, 2001

STATE OF Maryland  
COUNTY OF Montgomery

SS:

On January 23, 2001 before me, Linda Harris

a Notary Public in and for said State, personally appeared Stanley Kay  
 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

Linda Harris

LINDA D. HARRIS  
NOTARY PUBLIC STATE OF MARYLAND  
My Commission Expires August 1, 2001

STATE OF Maryland  
COUNTY OF Montgomery

SS:

On January 23, 2001 before me, Linda Harris

a Notary Public in and for said State, personally appeared Gerde Anta  
 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

Linda Harris

LINDA D. HARRIS  
NOTARY PUBLIC STATE OF MARYLAND  
My Commission Expires August 1, 2001

STATE OF Maryland  
COUNTY OF Montgomery

SS:

On January 23, 2001 before me, Linda Harris

a Notary Public in and for said State, personally appeared Bala Subramaniam  
 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

Linda D. Harris

LINDA D. HARRIS  
NOTARY PUBLIC STATE OF MARYLAND  
My Commission Expires August 1, 2001

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