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RECORDATION
PA

06-16-1999



101068738

PD-970411

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

1. Name of conveying party(ies):

Stanislav I. Ionov
George C. Valley
Anthony S. Acampora

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
P.O. Box 956
El Segundo, California 90245-0956

3. Nature of Conveyance:

☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Street Address: Bldg. 001, M.S. A109
200 North Sepulveda Blvd.
El Segundo, California 90245-0956

Additional name(s) & address(es) attached? ☐ yes ☒ no

Execution Date: March 22, 1999, April 24, 1999,
and May 13, 1999.

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

09/327351

If this document is being filed together with a new application, the execution date of the application is: March 22, 1999,
April 24, 1999 and May 13, 1999.

A. Patent Application No.(s)
Filed:

B. Patent No.(s)

Additional numbers attached? ☐ yes ☒ no

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

Name: Patent Records Administration
Internal Address: HUGHES ELECTRONICS CORPORATION
Building 001, M/S A109
P.O. Box 956
El Segundo, California 90245-0956

Street Address: 200 North Sepulveda Boulevard
El Segundo, California 90245-0956

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
Customer No.: 020991

06/15/1999 DNGUYEN 00000182 500383 09327351
01 FC:581 (40.00 CH)

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.

Georgann S. Grunebach,
Reg. No. 33,179

Georgann S. Grunebach June 4, 1999

Signature

Date

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: 010017 FRAME: 0517

ASSIGNMENT

Customer No. 020991

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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) **ARCHITECTURE FOR AN OPTICAL SATELLITE COMMUNICATION NETWORK** 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 STANISLAV I. IONOV	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE) 26025 MULHOLLAND HIGHWAY, CALIBASAS, CA 91302		INVENTION AGREEMENT DATE AUGUST 29, 1994

FULL NAME OF SOLE OR JOINT INVENTOR GEORGE C. VALLEY	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE) 2827 WIGTOWN ROAD, LOS ANGELES, CA 90064		INVENTION AGREEMENT DATE FEBRUARY 7, 1977

FULL NAME OF SOLE OR JOINT INVENTOR ANTHONY S. ACAMPORA	INVENTOR'S SIGNATURE <i>Anthony S. Acampora</i>	DATE 4/24/99
RESIDENCE (CITY AND STATE) 6473 AVENIDA CRESTA, LA JOLLA, CA 92037		INVENTION AGREEMENT DATE MAY 1, 1997

STATE OF California)
COUNTY OF San Diego) SS:

On April 24, 1999 before me, Judith M. Otell,
a Notary Public in and for said State, personally appeared Anthony Acampora —

☐ 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.



Judith M. Otell
Notary Public

IN WITNESS WHEREOF, I have executed this instrument.

FULL NAME OF SOLE OR JOINT INVENTOR STANISLAV I. IONOV	INVENTOR'S SIGNATURE <i>Stanislav I. Ionov</i>	DATE 03/22/99
RESIDENCE (CITY AND STATE) 26025 MULHOLLAND HIGHWAY, CALIBASAS, CA 91302		INVENTION AGREEMENT DATE AUGUST 29, 1994

FULL NAME OF SOLE OR JOINT INVENTOR GEORGE C. VALLEY	INVENTOR'S SIGNATURE <i>George C. Valley</i>	DATE 05/13/99
RESIDENCE (CITY AND STATE) 2827 WIGTOWN ROAD, LOS ANGELES, CA 90064		INVENTION AGREEMENT DATE FEBRUARY 7, 1977

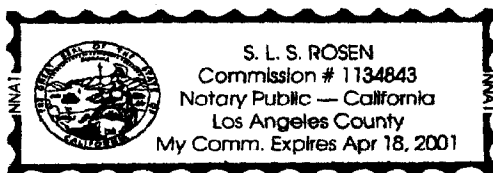
FULL NAME OF SOLE OR JOINT INVENTOR ANTHONY S. ACAMPORA	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE) 6473 AVENIDA CRESTA, LA JOLLA, CA 92037		INVENTION AGREEMENT DATE MAY 1, 1997

STATE OF Calif.)
COUNTY OF LOS ANGELES) SS:

On 3.22.99 before me, SLS ROSEN
a Notary Public in and for said State, personally appeared
STANISLAV I. IONOV

☐ 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.



SLS ROSEN
Notary Public

ASSIGNMENT

ADDENDUM

PD-970411

STATE OF CALIFORNIA)
COUNTY OF LOS ANGELES)

SS:

On May 13, 1999, before me, Christina H. Tady, a Notary Public in
and for said State, personally appeared George C. Valley

☒ 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.



Christina H. Tady
Notary Public

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

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

RECORDED: 06/05/1999

PATENT
REEL: 010017 FRAME: 0521