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4-16-01

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U.S. Department of Commerce
Patent and Trademark Office

PATENTS ONLY

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

<p>1. Name of conveying party(ies): SUDHAKAR RAO PAUL REGULINSKI</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>2. Name and address of receiving party(ies): Name: <u>HUGHES ELECTRONICS CORP.</u></p> <p>Internal Address: <u>BLDG. 001, M/S A109</u> <u>P.O. BOX 956, 200 N. SEPULVEDA BLVD.</u> <u>EL SEGUNDO, CA 90245-0956</u></p> <p>Street Address: <u>BLDG. 001, M.S. A109</u> <u>200 N. SEPULVEDA BLVD.</u></p> <p>City: <u>EL SEGUNDO</u> State: <u>CA</u> Zip: <u>90245</u></p> <p>Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</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 Date: <u>August 4, 1998 and August 25, 1998</u></p>	

Vertical stamp: JC971 U.S. PTO 09/035536 04/16/01

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: April 16, 2001

<p>A. Patent Application No.(s) <u>04/18/2001 HLE333 00000057 09035536</u> <u>03 FC:581 40.00 DP</u></p>	<p>B. Patent No.(s)</p>
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Additional numbers attached? Yes No

<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: <u>RICHARD S. KOPPEL</u></p> <p>Internal Address: <u>Koppel & Jacobs</u></p> <p>Street Address: <u>555 St. Charles Drive, Suite 107</u></p> <p>City: <u>Thousand Oaks</u> State: <u>CA</u> Zip: <u>91360</u></p>	<p>6. Total number of applications and patents involved: <u>1</u></p> <p>7. Total fee (37 CFR 3.41)..... \$ <u>40.00</u></p> <p><input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to be charged to deposit account.</p> <p>8. Deposit account number: <u>11-1580</u></p> <p><input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional filing fees which may be required or credit any overpayment to Deposit Account No. 11-1580</p>
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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

RICHARD S. KOPPEL Richard S. Koppel 4/16/01
Name of Person Signing Signature Date

Total number of pages including cover sheet, attachments, and document: 2

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

PATENT
REEL: 011702 FRAME: 0557

ASSIGNMENT

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Customer No. 020991

PD-970068

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) **NON-UNIFORM MULTI-BEAM SATELLITE COMMUNICATIONS SYSTEM AND METHOD** 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 **17 October 1997**, as **Serial No. 60/062,004**; 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 John L. Norin	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE) 5333 West 137th Place, Hawthorne, California 90250		INVENTION AGREEMENT DATE August 19, 1991

FULL NAME OF SOLE OR JOINT INVENTOR Sudhakar Rao	INVENTOR'S SIGNATURE <i>Sudhakar Rao</i>	DATE 08/04/98
RESIDENCE (CITY AND STATE) 20326 Mansel Avenue, Torrance, California 90503		INVENTION AGREEMENT DATE August 26, 1996

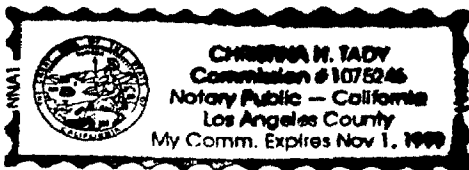
FULL NAME OF SOLE OR JOINT INVENTOR Paul Regulinski	INVENTOR'S SIGNATURE <i>Paul Regulinski</i>	DATE 8/25/98
RESIDENCE (CITY AND STATE) 3673 Berryman Avenue, Los Angeles, California 90066		INVENTION AGREEMENT DATE

STATE OF CALIFORNIA)
) SS:
COUNTY OF LOS ANGELES)

On August 04, 1998 before me, CHRISTINA H. TADY _____,
a Notary Public in and for said State, personally appeared Sudhakar Rao _____

~~XXX~~ personally known to me or ~~XX~~ 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 *Christina H. Tady*

STATE OF California)

COUNTY OF Los Angeles)

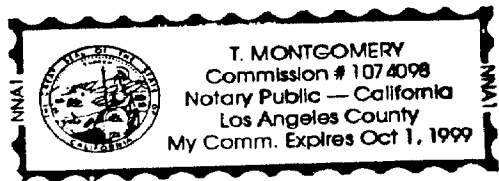
SS:

On August 25, 1998 before me, T. Montgomery

a Notary Public in and for said State, personally appeared Paul Regutinski

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 T. Montgomery

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