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PD-990119

To the Honorable Commissioner of Patents and Trademarks. Ple	To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.			
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Parthasarathy Ramanujam, Stephen A. Robinson and Philip H. Law Additional Name(s) of conveying party(ies) attached? Yes no I	Name: HUGHES ELECTRONICS CORPORATION Internal Address: Bldg. 001, M/S A109 PO Box 956 200 N. Sepulveda Blvd. El Segundo, CA 90245-0936			
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	ion, the execution date of the application is: January 5, 2000			
A. Patent Application No.(s)	B. Patent No.(s)			
09/488205 Additional num	 bers attached? □ yes 図 no			
Name and address of party to whom correspondence concerning document should be mailed: Name: HUGHES ELECTRONICS CORPORAT Internal Address: Corporate Patents & Licensing Bidg. 001, M/S A109 PO Box 956 El Segundo, CA 90245-0956	 □ Enclosed ☑ Authorized to be charged to deposit account 8. Deposit account number: 			
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9. Statement and signature. To the best of my knowledge and belief, the foregoing infocopy of the original document. Terje Gudmestad	Signature January 19, 2000 Date			
Total number of pages comprising cover sheet: [4]				

OMB No. 0651-0011 (exp. 4/94)

PATENT REEL: 010553 FRAME: 0495

ASSIGNMENT



Page 1 of 2 PD-990119

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) ANTENNA CLUSTER CONFIGURATION FOR WIDE-ANGLE COVERAGE 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.

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PATENT REEL: 010553 FRAME: 0496 IN WITNESS WHEREOF, I have executed this instrument.

FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	 -	DATE	
Parthasarathy Ramanujam	Parthancelly Revery	m	1/1/00	
RESIDENCE (CITY AND STATE)		INVENTIO	N AGREEMENT DATE	
Redondo Beach, California 90278		July 26, 1	1989	
FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE		DATE	
Stephen A. Robinson	Aph Mali		1/18/00	
RESIDENCE (CITY AND STATE)		INVENTIO	N AGREEMENT DATE	
North Hills, California 91343		Septemb	er, 1968	
FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	1	DATE	
Philip H. Law	philip H Can		1/5/00	
RESIDENCE (CITY AND STATE)		INVENTIO	N AGREEMENT DATE	
Encino, California 91436		April 17,	1995	
STATE OF CACIFORDIA COUNTY OF LOS ANGELES On LAURA S. ACEVES a Notary Public in and for said State, personally appeared Philip H. LAW Opersonally known to me or Oproved 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 LAURA P. ACEVES Commission # 1195368 Notary Public - Colifornia Los Angeles County My Comm. Expires Sep 3, 2002 Notary Public				
STATE OF CACIFORULA SS: COUNTY OF LOS AN CECES On Jeway S 200 before me, LAURA F. ACEVES a Notary Public in and for said State, personally appeared PARTHASARATHY FARAUSAM Dersonally 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(tes), 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. LAURA P. ACEVES Commission # 1195368 Notary Public - California Los Angeles County My Comm. Expires Sep 3, 2002		X e	en	

PATENT REEL: 010553 FRAME: 0497

CALIFORNIA ALL-PURPOSE AC	KNOWLEDGMENT		
STATE OF CALIFORNIA COUNTY OF LOS ANGELES)))	OPTIONAL SECTION CAPACITY CLAIMED BY SIGNER Though statute does not require the Notary to fill	
On January 18, 2000, before me, Laura appeared Stephen A. Robinson personally known to me – OR - LAURA P. ACEVES Commission # 1195368 Notary Public - California Los Angeles County My Comm. Expires Sep 3, 2002	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.	in the data below, doing so may prove invaluable to persons relying on the document. INDIVIDUAL	
	WITNESS my hand and official seal. (SIGNATURE OF NOTARY)	SIGNER IS REPRESENTING: (NAME OF PERSON(S) OR ENTITY(IES)) one two three	
OPTIONAL SECTION			
THIS CERTIFICATE MUST BE ATTACHED TO THE DOCUMENT DESCRIBED AT RIGHT:		t for PD-990119	
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