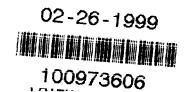
FEB 1 6 1999 03 FORM PTO-1595



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To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.  1. Name of Conveying party(ies):    Additional Name(s) of conveying party(ies) attached?   yes	TRADEMA	PD-970671			
Additional Name(s) of conveying party(ies) attached?  yes	To the Honorable Commissioner of Patents and Trademarks. Please re	ecord the attached original documents or copy thereof.			
Additional Name(s) of conveying party(ies) attached?  yes					
Additional Name(s) of conveying party(ies) attached?  yes					
Additional Name(s) of conveying party(ies) attached?  yes		Name: HUGHES ELECTRONICS CORPORATION			
Internal Address: Bidg, 001, M/S A109 PO Box 958 200 N. Sepulveda Bivd. El Segundo, CA 90245-0958  3. Nature of Conveyance:	Additional Name(s) of conveying party(ies) attached?				
PO Box 956 200 N. Sepulveda Bivd. El Segundo, CA 90245-0956  3. Nature of Conveyance:    Assignment	)	Internal Address: Bldg. 001, M/S A109			
200 N. Sepulveda Blvd El Segundo, CA 90245-0956  3. Nature of Conveyance:    Assignment	ves □ no ☒	<u> </u>			
Street Address: 200 N. Sepulveda Bivd.    Security Agreement   Change of Name   Additional name(s) & address(es) attached?   yes ⊠ no	yes 2 110 2				
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Additional name(s) & address(es) attached?	, ,				
4. Application number(s) or patent number(s): PD-970671  If this document is being filed together with a new application, the execution date of the application is:  A. Patent Application No.(s) 09/216,886  B. Patent No.(s)  Additional numbers attached?		Additional manager 0 addition (a) attached 0. Fig. 1. Fig.			
If this document is being filed together with a new application, the execution date of the application is:  A. Patent Application No.(s) 09/216,886  B. Patent No.(s)  Additional numbers attached?	Execution Date: <u>January 8, 1999</u>	Additional name(s) & address(es) attached? Li yes 🗷 no			
If this document is being filed together with a new application, the execution date of the application is:  A. Patent Application No.(s) 09/216,886  B. Patent No.(s)  Additional numbers attached?					
A. Patent Application No.(s) 09/216,886  Additional numbers attached?	4. Application number(s) or patent number(s): PD-970671				
A. Patent Application No.(s) 09/216,886  Additional numbers attached?					
Additional numbers attached?	If this document is being filed together with a new application, the	e execution date of the application is:			
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PO Box 956 200 N. Sepulveda Blvd. El Segundo, CA 90245-0956  PLEASE ASSOCIATE THIS APPLICATION WITH CUSTOMER NO. 020991.  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.  Vijayalakshmi D. Duraiswamy Name of Person Signing  R. Deposit account number:  50-0383  (Attached duplicate copy of this page if paying by deposit account)  February D., 1999 Date	•				
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**PATENT** 

**REEL: 9778 FRAME: 0219** 

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) SYSTEM AND SATELLITE PAYLOAD ARCHITECTURE FOR INTERACTIVE DATA DISTRIBUTION SERVICES 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 December 18, 1998 as Serial No. 09/216,886; 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.

> PATENT REEL: 9778 FRAME: 0220

IN WITNESS WHEREOF, I have executed this instrument.

FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE		DATE	
Jamal Sarraf	July 1	Jones	·	1/8/99
RESIDENCE (CITY AND STATE)			INVENTIO	N AGREEMENT DATE
Irvine, California 92620		ŕ	July 26,	1982

STATE OF <u>CACIFORNIA</u>)

On <u>January</u> 8, 1999 before me, \_\_\_\_\_\_

LAURA P. HCEVES

a Notary Public in and for said State, personally appeared

DAMAL SARRAF

o personally known to me or o 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.

LAURA P. ACEVES
Commission # 1195348
Notary Public - California
Los Angeles County
My Comm. Expires Sep 3, 2002

RECORDED: 02/16/1999

Notary Public

PATENT REEL: 9778 FRAME: 0221