08-23-1999

U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

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To the Honorable Commissioner of Pate 10112306	Ached original documents or copy thereof.			
Name of conveying party(ies):	Name and address of receiving party(ies):			
John Ziavras	Name: HUGHES ELECTRONICS CORPORATION			
JOHN Ziavias	Internal Address: Bldg. 001, M/S A109			
Additional Name(s) of conveying party(ies) attached?	P.O. Box 956			
yes □ no ⊾	200 N. Sepulveda Blvd.			
,	El Segundo, CA 90245-0956			
3. Nature of Conveyance:	Street Address: Bldg. 001, M.S. A109			
☑ Assignment ☐ Merger	200 N. Sepulveda Blvd.			
☐ Security Agreement ☐ Change of Name	El Segundo, California 90243			
☐ Other				
	Additional name(s) 8 address () -tttt0 -D			
Execution Date: August 11, 1999	Additional name(s) & address(es) attached? □ yes 坚 no			
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: August 11, 1999.			
1200 C O	5 5			
A. Patent Application No.(s): 09 /372822	B. Patent No.(s):			
Additional numbers attache	ed? □ yes 壓 no			
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5. Name and address of party to whom correspondence	6. Total number of applications and patents involved: [1]			
concerning document should be mailed:				
Names - Detect December Administrative	7. Total fee (37 CFR 3.41):\$40.00			
Name: Patent Records Administration	C. Cooleand			
Address: Hughes Electronics Corporation	□ Enclosed			
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9. Statement and signature				
Statement and signature.				
To the best of my knowledge and belief, the foregoing inform	nation is true and correct and any attached convis a true			
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.				
TERJE GUDMESTAD	August 12, 1999			
Registration No. 32,232 Signat				
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	Total number of pages including cover sheet: [3]			
OMB No. 0651-0011 (exp. 4/94)				

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ASSIGNMENT

Page 1 of 2 PD-980252

WHEREAS, I, as below named sole inventor (if only o	ne name is listed below) or jo	int inventor (if plural names
are listed below) of the city and state as stated below r	next to my name, have invente	ed a(an) SLIP RING Position
ENCODER for which application for Letters Patent of the	e United States has been exe	cuted 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.

PATENT REEL: 010172 FRAME: 0963

IN WITNESS WHEREOF, I have executed this instrument.

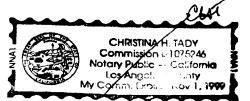
FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE		DATE
John Ziavras	John Zeinas		aug - 11, 1999
RESIDENCE (CITY AND STATE)		INVENTIO	ON AGREEMENT DATE
405 Gould Avenue, Hermosa Beach, Calif	ornia 90254	October	24, 1988
FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE		DATE
RESIDENCE (CITY AND STATE)		INVENTIO	ON AGREEMENT DATE
FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE		DATE
FOLE MAINE OF SOLE OR JOINT INVENTOR	INVENTORS SIGNATURE		DATE
RESIDENCE (CITY AND STATE)	1	LINVENTIO	ON AGREEMENT DATE
RESIDENCE (OFF AND STATE)			SH AGREEMENT BATE
<u> </u>		<u>l</u>	
FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE		DATE
RESIDENCE (CITY AND STATE)		INVENTIO	ON AGREEMENT DATE
<u> </u>		<u> </u>	
STATE OF CALIFORNIA)		
COUNTY OF LOS ANGELES) SS:)		

11 CHT

On August #, 1999 before me, Christina H. Tady, a Notary Public in and for said State, personally appeared

JOHN ZIAVRAS, $\[egin{align*} \end{align*} \]$ 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 Christian &. 1

My Comm. Expl

CHRISTINA H. TADY
Commission #1075246
Notary Public — Colifornio

13650 CO JAN 98

PATENT REEL: 010172 FRAME: 0964