08-08-2000 FORM PTO-1595 U.S. DEPARTMENT OF COMMERCE 1-31-92 Patent and Trademark Office JUL 2 4 2000 101427010 PD-970422 To the Honorable Commissioner of Resents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

2. Name and address of receiving party(ies): FARZAD TALAIE, JOHN G. HIMES, ANTHONY R. NOERPEL, JOHN L. ROTONDO. Name: **HUGHES ELECTRONICS CORPORATION** RICHARD H. JOHNSON Internal Address: Bldg. 001, M/S A109 Additional Name(s) of conveying party(ies) attached? PO Box 956 200 N. Sepulveda Blvd. yes □ no 🗵 El Segundo, CA 90245-0956 3. Nature of Conveyance: Street Address: 200 N. Sepulveda Blvd. P.O. Box 956 □ Merger El Segundo, California 90245 ☐ Security Agreement ☐ Change of Name ☐ Other Execution Date: July 5, 7, 11 and 18, 2000 Additional name(s) & address(es) attached? □ yes ☑ no 4. Application number(s) or patent number(s): 09/552,297 If this document is being filed together with a new application, the execution date of the application is: A. Patent Application No.(s) B. Patent No.(s) Additional numbers attached? ⊠ no □ yes 5. Name and address of party to whom correspondence 6. Total number of applications and patents involved: [1] concerning document should be mailed: 7. Total fee (37 CFR 3.41): \$40.00 **HUGHES ELECTRONICS CORPORATION** Name: Internal Address: Bldg. 001, M/S A109 □ Enclosed PO Box 956 Authorized to be charged to deposit account 200 N. Sepulveda Blvd. 8. Deposit account number: El Segundo, CA 90245-0956 PLEASE ASSOCIATE THIS APPLICATION WITH 50-0383 **CUSTOMER NO. 020991.** (Attached duplicate copy of this page if paying by deposit account) 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.

MICHAEL W. SALES
Name of Person Signing

Signature

JULY 19, 2000_

Total number of pages comprising cover sheet: [1]

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

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ASSIGNMENT

Page 1 of 2 PD-970422

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) **RADIO SIGNAL BROADCAST 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 **April 19, 2000**, as Serial No. **09/552,297**; 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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FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE /		DATE
			7/5/00
Farzad Talaie	A Library Laborary		• (
RESIDENCE (CITY AND STATE)		INVENTIO	N AGREEMENT DATE
1805 Belmont Lane, #B, Redondo Beach	, California 90278	June 11,	1990
FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	Т	DATE
John G. Himes			5
RESIDENCE (CITY AND STATE)		INIV (EATER)	N AGREEMENT DATE
2030 Frederick Street, Placentia, California	a 92680	March 5	, 1979
FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	T	DATE
Anthony R. Noerpel			
RESIDENCE (CITY AND STATE)	<u> </u>	INVENTIO	N AGREEMENT DATE
	Virginia 20420		
14068 Rehobeth Church Rd., Lovettsville,	virginia 20180	August 2	۲ø, 1995
FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	- 1	DATE
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John L. Rotondo			
RESIDENCE (CITY AND STATE)		INVENTIC	ON AGREEMENT DATE
758 Maryland Street, El Segundo, Californ	ia 90245	July 8, 1	982
FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	ı	DATE
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Richard H. Johnson		INVENTO	ON AGREEMENT DATE
RESIDENCE (CITY AND STATE)			
523 South Helberta Avenue, Redondo Be	ach, California 90277	June 18	, 1969
STATE OFCALIFORNIA)) SS:		
COUNTY OF LOS ANGELES) 55.		
On July 5, 2000 before me, JANET E. SHIBATA			
a Notary Public in and for said State, personally appeared FARZAD TALAIE			
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o personally known to me or to proved to name(x) is/ate subscribed to the within	instrument and acknowledged to me that	ະເບີຍອີເກ at he/ she/	they executed the
same in his/her/their authorized capacit	y (ies), and that by his /hor/their signatui	re (%) on t	the instrument the
person(**), or the entity upon behalf of which	ch the person(p) acted, executed the instr	ument.	
WITNESS my hand and official seal			
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7	T E. SHIBATA Notary Public	Ut E	. Ollerta
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FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE		DATE
Farzad Talaie			
RESIDENCE (CITY AND STATE)		INVENTIO	N AGREEMENT DATE
1805 Belmont Lane, #B, Redondo Beach,	California 90278	June 11, 1990	
FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE		DATE
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2030 Frederick Street, Placentia, California	a 92680	March 5,	1979
FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE		DATE
Anthony R. Noerpel			
RESIDENCE (CITY AND STATE)		INVENTIO	N AGREEMENT DATE
14068 Rehobeth Church Rd., Lovettsville,	Virginia 20180	August 2	8, 1995
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FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE		DATE
John L. Rotondo			
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758 Maryland Street, El Segundo, Californ	ia 90245	July 8, 1	982
FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE		DATE
Richard H. Johnson			
RESIDENCE (CITY AND STATE)		INVENTIO	N AGREEMENT DATE
523 South Helberta Avenue, Redondo Be	ach, California 90277	June 18	, 1969
		<u></u>	
STATE OFCALIFORNIA)			
COUNTY OF LOS ANGELES) SS:			
On July 7, 2000 before me, JANET E. SHIBATA			
a Notary Public in and for said State, personally appeared JOHN G. HIMES and RICHARD H. JOHNSON			
o personally known to me or & proved to me on the basis of satisfactory evidence to be the person(s) whose			
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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.			
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JANET E. SHIBATA

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PATENT

FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Farzad Talaie		
RESIDENCE (CITY AND STATE)		INVENTION AGREEMENT DATE
1805 Belmont Lane, #B, Redondo Beach,	, California 90278	June 11, 1990
FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
John G. Himes		IND/CALTION ACCOUNTS OF THE
RESIDENCE (CITY AND STATE)		INVENTION AGREEMENT DATE
2030 Frederick Street, Placentia, California	a 92680	March 5, 1979
FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Anthony R. Noerpel		
RESIDENCE (CITY AND STATE)	1	INVENTION AGREEMENT DATE
14068 Rehobeth Church Rd., Lovettsville,	Virginia 20180	August 28, 1995
	T INVENTORIC CIONATURE	DATE
FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
John L. Rotondo		
RESIDENCE (CITY AND STATE)		INVENTION AGREEMENT DATE
758 Maryland Street, El Segundo, Californ	ia 90245	July 8, 1982
730 Maryland Street, El Segundo, Californ	14 UULTU	0 diy 0, 1002
FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
FULL NAME OF SOLE OR JOINT INVENTOR Richard H. Johnson		DATE 7/7/00
FULL NAME OF SOLE OR JOINT INVENTOR RICHARD H. Johnson RESIDENCE (CITY AND STATE)	INVENTOR'S SIGNATURE	DATE 7/7/50 INVENTION AGREEMENT DATE
FULL NAME OF SOLE OR JOINT INVENTOR Richard H. Johnson	INVENTOR'S SIGNATURE	DATE 7/7/00
FULL NAME OF SOLE OR JOINT INVENTOR RICHARD H. Johnson RESIDENCE (CITY AND STATE)	INVENTOR'S SIGNATURE	DATE 7/7/50 INVENTION AGREEMENT DATE
FULL NAME OF SOLE OR JOINT INVENTOR Richard H. Johnson RESIDENCE (CITY AND STATE) 523 South Helberta Avenue, Redondo Be	each, California 90277	DATE 7/7/60 INVENTION AGREEMENT DATE
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FULL NAME OF SOLE OR JOINT INVENTOR Richard H. Johnson RESIDENCE (CITY AND STATE) 523 South Helberta Avenue, Redondo Be STATE OF COUNTY OF On	inventor's signature what father each, California 90277 "Begin and the basis of satisfactory evidence instrument and acknowledged to me the cy(ies), and that by his/her/their signature in the person(s) acted, executed the instruction of the person of the pe	DATE 7/7/50 INVENTION AGREEMENT DATE June 18, 1969 e to be the person(s) whose at he/she/they executed the re(s) on the instrument the
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1805 Belmont Lane, #B, Redondo Beach,	California 90278	June 11	, 1990
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John G. Himes	INVENTOR O GIGNATORE		5012
RESIDENCE (CITY AND STATE)		INVENTIO	N AGREEMENT DATE
2030 Frederick Street, Placentia, California	92680	March 5	
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Anthony R. Noerpel			
RESIDENCE (CITY AND STATE)		INVENTIO	ON AGREEMENT DATE
14068 Rehobeth Church Rd., Lovettsville, \	/irginia 20180	August :	28, 1995
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758 Maryland Street, El Segundo, California	a 90245	July 8, 1	1982
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Richard H. Johnson			
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523 South Helberta Avenue, Redondo Bea	ach California 90277	June 18	1969
525 South Heiberta Avenue, Nedondo Bea	Jon, Camorina Gozi /	Julio 10	.,
STATE OFCALIFORNIA)		
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COUNTY OF LOS ANGELES)		
On July 18, 2000 before	e me,JANET E. SHIBATA		1
a Notary Public in and for said State, personant JOHN L. ROTONDO	onally appeared		,
o 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.			
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14068 Rehobeth Church Rd., Lovettsville,	Virginia 20(80	August 28, 1995
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523 South Helberta Avenue, Redondo Be	ach, California 90277	June 18, 1969
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WITNESS my hand and official seal		Λ Δ
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City/County of FREDERICK State of Maryland	Notary Public IV	my fran
State of Maryland Sworn to and subscribed before me this day of the subscribed before me this day of the subscribed before me this day of the subscribed before my hand and official seal.		1
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RECORDED: 07/24/2000