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01-02-2001

PARTMENT OF COMMERCE
Patent and Trademark Office

FORM PTO-1595 1-31-92 RECC

10(13)	PD-200075				
To the Honorable Commissioner of Patents and Trademarks. Please re					
Name of conveying party(ies):	Name and address of receiving party(ies):				
DONALD C. D. CHANG, WEIZHENG WANG, YING FERIA, MING CHANG, HAROLD ROSEN	Name: HUGHES ELECTRONICS CORPORATION Internal Address: Bldg. 001, M/S A109				
Additional Name(s) of conveying party(ies) attached?	PO Box 956				
yes □ no 区	200 N. Sepulveda Blvd. El Segundo, CA 90245-0956				
3. Nature of Conveyance:	Street Address: 200 N. Sepulveda Blvd. P.O. Box 956				
⊠ Assignment	El Segundo, California 90245				
Execution Date: October 4, 5, 9, 25, 2000	Additional name(s) & address(es) attached? ☐ yes ☒ no				
4. Application number(s) or patent number(s): 09/594,375					
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? □ yes ⊠ no					
Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: [1]				
Name: HUGHES ELECTRONICS CORPORATION	7. Total fee (37 CFR 3.41): \$40.00				
Internal Address: Bldg. 001, M/S A109	☐ Enclosed				
PO Box 956	☑ Authorized to be charged to deposit account				
200 N. Sepulveda Blvd. El Segundo, CA 90245-0956	Deposit account number:				
El degundo, OA 30240-0300	o. Beposit decount Humbor.				
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					
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.					
Name of Person Signing VIJAYALAKSHMI D. DURAISWAMY Name of Person Signing Name of Person Signing Name of Person Signing Name of Person Signing Name of Person Signing					
	Total number of pages comprising cover sheet: []				

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



HUGHES

ASSIGNMENT

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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) **COMMUNICATION**SYSTEM HAVING FREQUENCY REUSE IN NON-BLOCKING MANNER or 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 <u>June</u>

15, 2000, as Serial No. 09/594,375; 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.

13650 CO (7/98)

IN WITNESS WHEREOF, I have executed this instrument.

FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE					
DONALD C. D. CHANG	Small CD. Cl-P	10/9/2000					
RESIDENCE (CITY AND STATE)	/	INVENTION AGREEMENT DATE					
	350 Moberly Court, Thousand Oaks, California 91360 September 11, 1978						
FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE					
WEIZHENG WANG	my wo	INVENTION AGREEMENT DATE					
RESIDENCE (CITY AND STATE)		INVENTION AGREEMENT DATE					
27113 Indian Peak Road		January 29, 1998					
FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE					
YING FERIA	Jing Leria	10/9/00					
RESIDENCE (CITY AND STATE)		INVENTION AGREEMENT DATE					
306 Anderson Street, Manhattan Beach		January 9, 1997					
FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE / /					
MING CHANG	Ill: le le	10/5/2000					
RESIDENCE (CITY AND STATE)		INVENTION AGREEMENT DATE					
28815 Indian Valley Road, Rancho Palo	os Verdes, California	November 3, 1977					
FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE					
HAROLD ROSEN	Harold a Roser	16/4/00					
RESIDENCE (CITY AND STATE)		INVENTION AGREEMENT DATE					
14629 Hilltop Road, Santa Monica, Ca	lifornia	February 1998					
STATE OF							
COUNTY OF LOS ANGELES	<u> </u>						
COUNTY OF LOS ANGELES	re me, <u>JANET E. SHIBATA</u>	· · · · · · · · · · · · · · · · · · ·					

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ASSIGNMENT ADDENDUM TO PAGE 2 PD-200075-200089

STATE OF
COUNTY OF LOS ANGELES) SS:
On OCTOBER 5, 2000 before me, JANET E. SHIBATA
a Notary Public in and for said State, personally appeared MING CHANG
\Box personally known to me or \boxtimes 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.
JANET E. SHIBATA Comm. No. 1258646 NOTARIY PUBLIC - CALIFORNIA LOS ANGELES COUNTY My Comm. Exp. Merch 30, 2004
STATE OFCALIFORNIA) COUNTY OF LOS ANGELES)
On OCTOBER 9, 2000 before me, JANET E. SHIBATA
a Notary Public in and for said State, personally appeared YING FERIA,
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.
JANET E. SHIBATA Comm. No. 1258646 NOTARY PUBLIC - CALIFORNIA LOS ANGELES COUNTY My Comm. Exp. March 30, 2004

STAT	TE OF	CAL	IFORNIA			.)	
cou	NTY OF	LOS	ANGELE	S)	SS:
On _	OCTOBER	9,	2000	_ before me,	JANE	T E.	SHIBATA
a Not	ary Public in DONALD(and f	for said State CHANG	e, personally a	ppeared	İ	
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ALCIMO-11A		JANE Com IOTARY LOS	MUZANI ORIGI ET E. SHIBAT M. No. 125864 PUBLIC - CALIFO ANGELES COUNT EXP. March 30, 2	TA L 6 ON RNIA D 14		\leq	Hut E. Suilrta Notary Public
	^ ' \		fornia Angele 1,2000	5 _ before me,	Jana) } } }	ss: . Shibata
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	WITNESS	ny ha	JANET E.S	SHIBATA E			Notary Public Sulvetu
	CMD-1		Comm. No. NOTARY PUBLIC LOS ANGELE (y Comm. Exp. M	-CALIFORNIA 🛱			

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RECORDED: 12/13/2000