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To the Honorable Commissioner of Patents and Tra			riginal documents or copy thereo	
1. Name of conveying party(ies):	2.	Name and ado	iress of receiving party(ies):	
Yezdi ANTIA Ludong WANG	Nai	ne: HUGHE	S ELECTRONICS CORPORA	ATEO
Mohammad SOLEIMANI A. Roger HAMMONS	Inte	rnal Address:	PQ Box 956	J.S.
Additional Name(s) of conveying party(ies) atta	ched?		200 N. Sepulveda Bivd. El Segundo, CA 90245-0956	526 1
yes no X			1. In the second s second second s second second s second second se	ž
3. Nature of Conveyance:	Stre	et Address:	200 N. Sepulveda Bivd. P.O. Box 956	
X Assignment [] Merger] Security Agreement [] Change of] Other	of Name		El Segundo, California 9024	5
Execution Date: October 28, 1998	Add	itionat name(s)	& address(es) attached? () yes	X no
4. Application number(s) or patent number(s):		·····	······	
A. Patent Application No.(s)	905	B. Paten	t No.(s)	
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PATENT REEL: 9566 FRAME: 0135

ASSIGNMENT

HUGHES

Page 1 of 3 PD-980139

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) **A SYSTEM AND METHOD OF SOFT DECISION DECODING** 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.

> PATENT REEL: 9566 FRAME: 0136

IN WITNESS WHEREOF, I have executed this instrument.

FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Yezdi ANTIA	MAB CALL	
RESIDENCE (CITY AND STATE)	······································	INVENTION AGREEMENT DATE
Gaithersburg, Maryland		
FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Ludong WANG		10/20/48
RESIDENCE (CITY AND STATE)	······································	INVENTION AGREEMENT DATE
Frathorsburg, M.	aryland	
FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	, 10/28/98
RESIDENCE (CITY AND STATE)	Justalian	INVENTION AGREEMENT DATE
Rockville, Maryland		INVENTION AGREEMENT DATE
FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
A. Roger HAMMONS	altammonspe	10/28/98
RESIDENCE (CITY AND STATE)	<u> </u>	INVENTION AGREEMENT DATE
North Potomac, Maryland		
STATE OF Mary 17, 1)	
) SS:	
	/	
On befo	re me, <u>EAL Frank Kanne</u> sonally appeared <u>Luc ICMA UC</u>	<i>f</i> (<i>n</i> + (<i>n</i>), <i>n</i> , <i>n</i>
a Notary Public in and for said State, per personally known to me or proved to	o me on the basis of satisfactory evidence	ce to be the person(s) whose
name(s) is/are subscribed to the within in	strument and acknowledged to me that he	e/she/they executed the same
in his/her/their authorized capacity(ies), a	nd that by his/her/their signature(s) on the	e instrument the person(s), or

WITNESS my hand and official seal.

the entity upon behalf of which the person(s) acted, executed the instrument.

Notary Public $|t| = ||t|| = ||\mu|$



PATENT REEL: 9566 FRAME: 0137

	$\mathbf{k}\mathbf{A}$ - \mathbf{k}				PD-980139
	Maryla.)		
COUNTY OF	Frederic	4 m) SS:)		
On <u>()</u>	128+1 1998	before me, _	Coystal L	Brooks-	

a Notary Public in and for said State, personally appeared <u>Motocial for a Animal</u>, 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.

Milai L Frankl Notary Public

ASSIGNMENT Page 3 of 3

CRYSTAL L. BROOKS Notary Public Frederick County COUNTY OF Frederick Maryland My Commission Expires July 31, 2002 SS: Oct. 28, 1998 before me, Crystal On a Notary Public in and for said State, personally appeared Mohammad

a Notary Public in and for said State, personally appeared <u>Mohammed Mission</u>, 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.

rystal L. 5 Notary Public CRYSTAL L. BROOKS **Notary Public** Frederick County STATE OF Maryland COUNTY OF Frederick Maryland My Commission Expires July 31, 2002 SS: ſ On <u>CRA 28, 1497</u> before me, <u>Crystal L Republics</u> a Notary Public in and for said State, personally appeared <u>A. Roger Hammons</u>

y 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.

Notary Public	Brychild Fronk ()
-	CRYSTAL L. BROOKS Notary Public Frederick County
	Maryland My Commission Expires July 31, 2002

REEL: 9566 FRAME: 0138

RECORDED: 10/29/1998