## 10-26-2001 **U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office** Attorney Docket No. 201079 REC 101887039 TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies). Submission Type 2. Nature of Conveyance: ⊠ New Security Agreement Resubmission (Non-Recordation) License Change of Name Document # Merger Other: ☐ Correction of PTO Error Reel Frame Corrective Document Reel Frame 3. Conveying Party(ies): Mark if additional names of conveying parties attached. Name Lou King Execution Date: 9/4/2001 (m/d/yyyy) Name Michael Ficco Execution Date: 9/4/2001 (m/d/yyyy) Name John May Execution Date: 10/9/2001 (m/d/yyyy) Name Jorge Guzman Execution Date: 9/4/2001 (m/d/vvvv) Receiving Party: Correspondent Name and Address: Name: **Hughes Electronics Corporation** Name: **Hughes Electronics Corporation** Address: 200 North Sepulveda Blvd. Address: Patent Docketing Administration El Segundo, CA 90245-0956 P.O. Box 956 Bldg. 1, Mail Stop A109 El Segundo, CA 90245-0956 Please associate this document and the attached documents with customer no. 020991. 6. Application Number(s) or Patent Number(s): Mark if additional numbers attached. Either enter the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property). Patent Application Number(s) Patent Number(s) If this document is being filed together with a new Patent Application, enter the date that the patent 9/4/2001 (m/d/yyyy) application was executed by the first named inventor. 7. Patent Cooperation Treaty (PCT) Numbers: Enter PCT application number(s) **PCT PCT** PCT only if a U.S. Application Number **PCT PCT PCT** has not been assigned. 8. Number of Properties: Enter the total number of properties involved: 1. Fee Transmittal: Fee amount for listed properties (37 CFR 3.41): \$40.00 Method of Payment: Enclosed Deposit Account Deposit Account No. 50-0383 Authorization to charge additional fees: X Yes ☐ No 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. Charges to deposit account are authorized as indicated herein.

Signature

10/25/2001 GTON11 00000236 500383 09978469

John T. Whelan, Reg. No. 32,448

Name of Person Signing

01 FC:581 40.00 CH

PATENT REEL: 012277 FRAME: 0198

Total number of pages comprising cover sheet: 1

PD-201079 Page 2 Assignment

Additional Name(s) of Conveying Parties:

Name:

**Execution Date** 

Yong Gao

September 4, 2001

PATENT REEL: 012277 FRAME: 0199



## **ASSIGNMENT**

Page 1 of 3

Attorney Docket No: PD-201079

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 <u>METHOD, SYSTEM AND</u>

COMPUTER PROGRAM PRODUCT FOR EFFICIENT STORAGE OF DATA:

for which application for Letters Patent of the United States has been executed by me on this day; or	
which is embodied in U.S. Patent Application Serial No filed on	
VHEREAS HUGHES ELECTRONICS CORPORATION (hereinafter referred to as HUGHES), a Delaware	

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-inpart, 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: 012277 FRAME: 0200

ASSIGNMENT Page 2 of 3 Attorney Docket No: PD-201079

## IN WITNESS WHEREOF, I have executed this instrument:

Full Name of Sole or Joint Inventor:	Inventor's Signature:	Date:
LOU KING	1/1/1	9/4/01
Residence (City and State)		INVENTION AGREEMENT DATE
Ijamsville, Maryland		
Full Name of Joint Inventor:	Inventor's Signature:	Date:
Michael Ficco	Muchel H-7	- 9/4/01
Residence (City and State)	,,,,,	INVENTION AGREEMENT DATE
Silver Spring, Maryland		
Full Name of Joint Inventor:	Inventor Signature:	Date:
JOHN MAY	JAN JU	10/9/01
Residence (City and State)		INVENTION AGREEMENT DATE
Ijamsville, Maryland		
Full Name of Joint Inventor:	Inventor's Signature:	Date:
JORGE GUZMAN	umen	9/4/01
Residence (City and State)	51	INVENTION AGREEMENT DATE
Damascus, Maryland	•	
Full Name of Joint Inventor:	Inventor's Signature:	Date;
YONG GAO	9000	09/04/01
Residence (City and State)	000	INVENTION AGREEMENT DATE
Germantown, Maryland		
COUNTY OF	on the basis of satisfactory evidence to be the phe/she <del>/they</del> executed the same in his/h <del>er/thek</del> the entity upon behalf of which the person(s) ac	cauthorized capacity(ies), and that by his/her/thected, executed the instrument.  //RGINIAL. FOGLE  Notary Public
<b>1</b> 00 . 0 . <b>1</b>	My Comm	Frederick County Maryland Itssion Expires Feb 28, 2005
COUNTY OF Frederick	) ss:	h. Co
On	appeared on the basis of satisfactory evidence to be the he/she/they executed the same in his/her/their	←authorized capacity(ies), and that by his/her/th
1_	My Commission Vanires Feb 28, 2005	PATENT
		REEL: 012277 FRAME: 0201

ASSIGNMENT Page 3 of 3 Attorney Docket No: PD-201079

state of Maryland		
COUNTY OF FREDERICK	SS:	
on October 9,2001 before me, Virgini	u.L. J	ogle.
a Notary Public in and for said State, personally appeared Deprication of Deprication of Deprication of Deprication of Deprication of Statistics within instrument and acknowledged to me that he/she/they executed signature(s) on the instrument the person(s), or the entity upon behalf	I the same in his/h <del>e</del>	#/their authorized capacity(ies), and that by his/her/their n(s) acted, executed the instrument.
WITNESS my hand and official seal.	Notary Public	Virginia & . Dogle
		VIRGINIA L. FOGLE Notary Public Frederick County Maryland My Commission Expires Feb 28, 2005
STATE OF Maryland	SS:	
COUNTY OF <u>Inederick</u>	· · ·	1 6
on Sept. 4, 2001 before me, a Notary Public in and for said State, personally appeared	Dorae	Durman
personally known to me or proved to me on the basis of satisfa within instrument and acknowledged to me that he/she/they executed signature(s) on the instrument the person(s), or the entity upon behalf	I the same in his/he	e the person(s) whose name(s) is/are subscribed to the matter authorized capacity(ies), and that by his/her/their
WITNESS my hand and official seal.	Notary Public	Virginia & Doyle
r\\\\ \O_{\tau} \ \O_{\tau}		VIRGINIA L. FOGLE  Notary Public  Frederick County  Maryland  My Commission Expires Feb 20, 2005
STATE OF [   Aryland )	SS:	
ON Sept. 4, 2001 before me, Jugus a Notary Public in and for said State, personally appeared	ia L.	Jose .
personally known to me or proved to me on the basis of satisfa within instrument and acknowledged to me that he/she/they executed signature(s) on the instrument the person(s), or the entity upon behalf	I the same in his/he	<del>r/the</del> ir authorized capacity(ies), and that by his/her/their
WITNESS my hand and official seal.	Notary Public	Virginia L'Oogle
•		
		Viriginia L. FOGLE Notary Public Frederick County Maryland My Commission Expires Feb 28, 2005

**RECORDED: 10/17/2001** 

**PATENT** 

**REEL: 012277 FRAME: 0202**