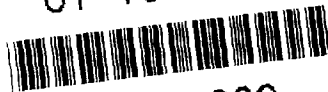


01-16-2002

FORM PTO-1595
1-31-92

101950399

APPLICATION FORM COVER SHEET

PATENTS ONLY

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

PD-200226

To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): Leon J. Stanger Hanno Basse James A. Michener Robert H. Plummer Rickard K. Newman Additional Name(s) of conveying party(ies) attached? yes <input type="checkbox"/> no <input checked="" type="checkbox"/>	2. Name and address of receiving party(ies): Name: HUGHES ELECTRONICS CORPORATION Internal Address: Bldg. 001, M/S A109 PO Box 956 200 N. Sepulveda Blvd. El Segundo, CA 90245-0956
--	--

3. Nature of Conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other Execution Date: <u>December 7, 2001</u>	Street Address: 200 N. Sepulveda Blvd. P.O. Box 956 El Segundo, California 90245 Additional name(s) & address(es) attached? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no
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4. Application number(s) or patent number(s): <u>10/038174</u> If this document is being filed together with a new application, the execution date of the application is: <u>December 7, 2001</u>	
A. Patent Application No.(s)	B. Patent No.(s)
Additional numbers attached? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no	

5. Name and address of party to whom correspondence concerning document should be mailed: Name: HUGHES ELECTRONICS CORPORATION Internal Address: Bldg. 001, M/S A109 PO Box 956 200 N. Sepulveda Blvd. El Segundo, CA 90245-0956	6. Total number of applications and patents involved: [1] 7. Total fee (37 CFR 3.41): <u>\$40.00</u> <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account 8. Deposit account number: <u>50-0383</u> (Attached duplicate copy of this page if paying by deposit account)
---	--

PLEASE ASSOCIATE THIS APPLICATION WITH
CUSTOMER NO. 020991.

01/15/2002 RAHMED1 00000168 500383 10038174

01 FC:581 40.00 CH

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.		
<u>John A. Crook, Registration No. 30,830</u> Name of Person Signing	 Signature	<u>January 2, 2002</u> Date
Total number of pages: [11]		

ASSIGNMENT

HUGHES

Page 1 of 2
PD-200226

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) EXPLOITATION OF NULL PACKETS IN PACKETIZED DIGITAL TELEVISION SYSTEMS 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.

IN WITNESS WHEREOF, I have executed this instrument.

FULL NAME OF SOLE OR JOINT INVENTOR Leon J. Stanger	INVENTOR'S SIGNATURE <i>Leon J. Stanger</i>	DATE 7 Dec 01
RESIDENCE (CITY AND STATE) Farmington, Utah		INVENTION AGREEMENT DATE December 4, 1995

FULL NAME OF SOLE OR JOINT INVENTOR Hanno Basse	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE) Santa Monica, California		INVENTION AGREEMENT DATE November 24, 1997

FULL NAME OF SOLE OR JOINT INVENTOR James A. Michener	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE) Grass Valley, California		INVENTION AGREEMENT DATE -

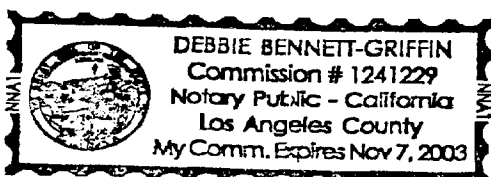
FULL NAME OF SOLE OR JOINT INVENTOR Robert H. Plummer	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE) Seattle, Washington		INVENTION AGREEMENT DATE November 21, 1994

FULL NAME OF SOLE OR JOINT INVENTOR Richard K. Newman	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE) North Hollywood, California		INVENTION AGREEMENT DATE

STATE OF CALIFORNIA)
COUNTY OF LOS ANGELES) SS:
On DECEMBER 7, 2001 before me, DEBBIE BENNETT-GRIFFIN,
a Notary Public in and for said State, personally appeared LEON J. STANGER,

☐ 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 *Debbie Bennett-Griffin*

ASSIGNMENT

HUGHES™

Page 1 of 2
PD-200226

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) EXPLOITATION OF NULL PACKETS IN PACKETIZED DIGITAL TELEVISION SYSTEMS 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.

IN WITNESS WHEREOF, I have executed this instrument.

FULL NAME OF SOLE OR JOINT INVENTOR Leon J. Stanger	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE) Farmington, Utah		INVENTION AGREEMENT DATE December 4, 1995

FULL NAME OF SOLE OR JOINT INVENTOR Hanno Basse	INVENTOR'S SIGNATURE <i>Hanno Basse</i>	DATE 12-07-01
RESIDENCE (CITY AND STATE) Santa Monica, California		INVENTION AGREEMENT DATE November 24, 1997

FULL NAME OF SOLE OR JOINT INVENTOR James A. Michener	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE) Grass Valley, California		INVENTION AGREEMENT DATE -

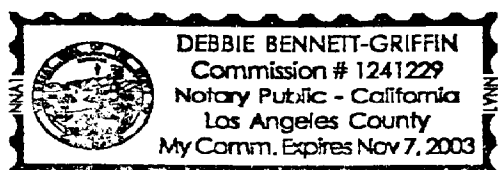
FULL NAME OF SOLE OR JOINT INVENTOR Robert H. Plummer	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE) Seattle, Washington		INVENTION AGREEMENT DATE November 21, 1994

FULL NAME OF SOLE OR JOINT INVENTOR Richard K. Newman	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE) North Hollywood, California		INVENTION AGREEMENT DATE

STATE OF CALIFORNIA)
COUNTY OF LOS ANGELES) SS:
On DECEMBER 7, 2001 before me, Debbie Bennett-Griffin,
a Notary Public in and for said State, personally appeared HANNO BASSE.

☐ 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 Debbie Bennett-Griffin

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) **EXPLOITATION OF NULL PACKETS IN PACKETIZED DIGITAL TELEVISION SYSTEMS** 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.

IN WITNESS WHEREOF, I have executed this instrument.

FULL NAME OF SOLE OR JOINT INVENTOR Leon J. Stanger	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE) Farmington, Utah		INVENTION AGREEMENT DATE December 4, 1995

FULL NAME OF SOLE OR JOINT INVENTOR Hanno Basse	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE) Santa Monica, California		INVENTION AGREEMENT DATE November 24, 1997

FULL NAME OF SOLE OR JOINT INVENTOR James A. Michener	INVENTOR'S SIGNATURE <i>James A. Michener</i>	DATE 12/7/01
RESIDENCE (CITY AND STATE) Grass Valley, California		INVENTION AGREEMENT DATE .

FULL NAME OF SOLE OR JOINT INVENTOR Robert H. Plummer	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE) Seattle, Washington		INVENTION AGREEMENT DATE November 21, 1994

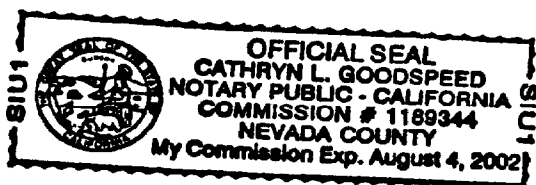
FULL NAME OF SOLE OR JOINT INVENTOR Richard K. Newman	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE) North Hollywood, California		INVENTION AGREEMENT DATE

STATE OF California)
COUNTY OF Nevada) SS:

On December 7, 2001 before me, Cathryn L Goodspeed,
a Notary Public in and for said State, personally appeared
James A. Michener.

☒ 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 Cathryn L. Goodspeed

ASSIGNMENT

HUGHES

Page 1 of 2
PD-200226

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) EXPLOITATION OF NULL PACKETS IN PACKETIZED DIGITAL TELEVISION SYSTEMS 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

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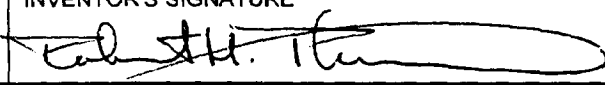
NOW, THEREFORE, in consideration of the obligations voluntarily assumed by me and set forth in an invention agreement between me and my employer, effective the date as stated below next to my name, and other good and valuable consideration, receipt of which is hereby acknowledged, I do hereby sell, assign 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.

IN WITNESS WHEREOF, I have executed this instrument.

FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Leon J. Stanger		
RESIDENCE (CITY AND STATE)		INVENTION AGREEMENT DATE
Farmington, Utah		December 4, 1995

FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Hanno Basse		
RESIDENCE (CITY AND STATE)		INVENTION AGREEMENT DATE
Santa Monica, California		November 24, 1997

FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
James A. Michener		
RESIDENCE (CITY AND STATE)		INVENTION AGREEMENT DATE
Grass Valley, California		-

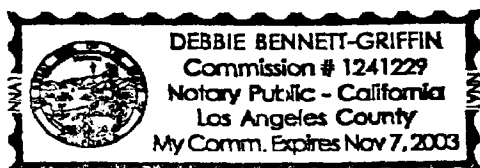
FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Robert H. Plummer		12/7/01
RESIDENCE (CITY AND STATE)		INVENTION AGREEMENT DATE
Seattle, Washington		November 21, 1994

FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Richard K. Newman		
RESIDENCE (CITY AND STATE)		INVENTION AGREEMENT DATE
North Hollywood, California		

STATE OF CALIFORNIA)
COUNTY OF LOS ANGELES) SS:
On DECEMBER 7, 2001 before me, DEBBIE BENNETT-GRIFFIN,
a Notary Public in and for said State, personally appeared ROBERT H. PLUMMER

☒ 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 Debbie Bennett Griffin

ASSIGNMENT

HUGHES

Page 1 of 2
PD-200226

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) EXPLOITATION OF NULL PACKETS IN PACKETIZED DIGITAL TELEVISION SYSTEMS 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

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FULL NAME OF SOLE OR JOINT INVENTOR Leon J. Stanger	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE) Farmington, Utah		INVENTION AGREEMENT DATE December 4, 1995

FULL NAME OF SOLE OR JOINT INVENTOR Hanno Basse	INVENTOR'S SIGNATURE	DATE
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FULL NAME OF SOLE OR JOINT INVENTOR Richard K. Newman	INVENTOR'S SIGNATURE <i>Richard K. Newman</i>	DATE 12/07/2001
RESIDENCE (CITY AND STATE) North Hollywood, California		INVENTION AGREEMENT DATE Dec 7, 2001

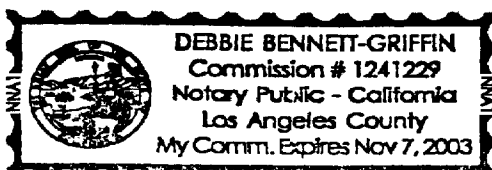
STATE OF CALIFORNIA)
COUNTY OF LOS ANGELES)

SS:

On December 7, 2001 before me, Debbie BENNETT-GRIFFIN,
a Notary Public in and for said State, personally appeared RICHARD K. NEWMAN.

☐ 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 Debbie Bennett-Griffin