

07/27/04

08-05-2004

FORM PTO-1595

RECC



102807321

DEPARTMENT OF COMMERCE
Patent and Trademark Office

PD-201144

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

1. Name of conveying party(ies):
Chao-Kung Yang
Additional name(s) of conveying party(ies) attached?
Yes No

2. Name and address of receiving party(ies):
Name: HUGHES ELECTRONICS CORPORATION
Internal Address: RE / R11 / A109
P.O. Box 956
2240 East Imperial Highway
El Segundo, CA 90245
Street Address: 2240 East Imperial Highway
P.O. Box 956
El Segundo, California 90245
Additional name(s) & address(es) attached? Yes No

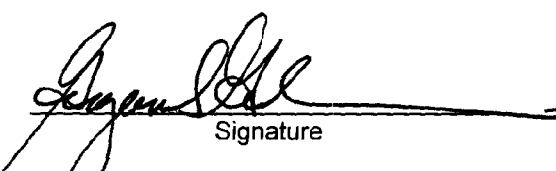
3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other
Execution Date: June 21, 2004

4. Application number(s) or patent number(s): 101900845
If this document is being filed together with a new application, the execution date of the application is: June 21, 2004
A. Patent Application No.(s) B. Patent No.(s)
Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: THE DIRECTV GROUP, INC.
Internal Address: RE / R11 / A109
P.O. Box 956
2240 East Imperial Highway
El Segundo, CA 90245
PLEASE ASSOCIATE THIS APPLICATION WITH CUSTOMER NO. 020991.

6. Total number of applications and patents involved: [1]
7. Total fee (37 CFR 3.41): \$40.00
 Enclosed
 Authorized to be charged to deposit account
8. Deposit account number:
50-0383
(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.
Georgann S. Grunbach, Reg. No. 33,179  July 27, 2004
Name of Person Signing Signature Date
Total number of pages including cover sheet, attachments, and documents: [3]

OMB No. 0651-0027 (exp. 06/30/2005)

08/04/2004 6TON11 00000116 500383 10900845

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PATENT
REEL: 015637 FRAME: 0635

ASSIGNMENT

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) VIDEO BIT STREAM TEST 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 Chao-Kung Yang	INVENTOR'S SIGNATURE <i>[Signature]</i>	DATE 6-21-2004
RESIDENCE (CITY AND STATE) Huntington Beach, California		INVENTION AGREEMENT DATE October 29, 1979

FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE)		INVENTION AGREEMENT DATE

FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE)		INVENTION AGREEMENT DATE

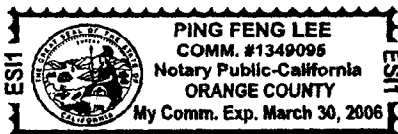
FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE)		INVENTION AGREEMENT DATE

FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE)		INVENTION AGREEMENT DATE

STATE OF California)
COUNTY OF Orange) SS:
On June 21st, 2004 before me, PING FENG LEE,
a Notary Public in and for said State, personally appeared
CHAO-KUNG YANG

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

[Signature]