

04-15-2005



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PD-204062

To the Honorable Commissioner of Patents and Trademarks, Patent and Trademark Office, Washington, DC 20503, and original documents or copy thereof.

04-01-05

1. Name of conveying party(ies):

Thomas H. James
Dipak M. Shah

Additional Name(s) of conveying party(ies) attached?

yes no

2. Name and address of receiving party(ies):

Name: The DIRECTV Group, Inc.

Internal Address: RE/R11/A109
P. O. Box 956
El Segundo, CA 90245-0956

113014 U.S. PTO
11/097625



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3. Nature of Conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other _____

Execution Date: March 31, 2005

Street Address: 2250 E. Imperial Highway
El Segundo, California 90245

Additional name(s) & address(es) attached? yes no

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: March 31, 2005

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
El Segundo, CA 90245-0956

**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

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
Name of Person Signing
Registration No. 33,179

April 1, 2005
Date

Total number of pages including cover sheet: Three (3)



ASSIGNMENT

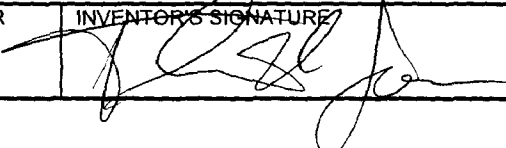
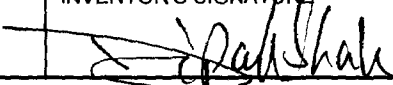
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WHEREAS, I, as below named joint inventor of the city and state as stated below next to my name, have invented a **NARROW BANDWIDTH SIGNAL DELIVERY SYSTEM** for which application for Letters Patent of the United States has been executed by me on this day, or (if the following is completed) filed on as Serial No. _____.

WHEREAS, **THE DIRECTV GROUP, INC.**, (hereinafter referred to as **DIRECTV**), 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 **DIRECTV**, 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 **DIRECTV**, 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 **DIRECTV**, 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 **DIRECTV**, 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 **DIRECTV**, 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 **DIRECTV**, its successors, assigns or other legal representatives.

IN WITNESS WHEREOF, I have executed this instrument.


FULL NAME OF SOLE OR JOINT INVENTOR Thomas H. James	INVENTOR'S SIGNATURE 	DATE <i>March 31, 2005</i>
RESIDENCE (CITY AND STATE) 1010 Fiske Street Pacific Palisades, California 90272		
FULL NAME OF SOLE OR JOINT INVENTOR Dipak M. Shah	INVENTOR'S SIGNATURE 	DATE <i>Mar 31, 2005</i>
RESIDENCE (CITY AND STATE) 8666 Brooke Avenue Westminster, California 92683		
FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE)		
FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE)		
FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE)		

STATE OF CALIFORNIA)
COUNTY OF LOS ANGELES) SS:

On March 31, 2005 before me JANET E. SHIBATA,
a Notary Public in and for said State, personally appeared
THOMAS H. JAMES and DIPAK M. SHAH

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

