

08-23-2007



ET

103439061

To the Director of the U.S. Patent

documents or the new address(es) below.

**1. Name of conveying party(ies)**

Robert G. Arsenault (8-13-07) Gilbert Zaldivar (8-14-07)  
Raynold M. Kahn (8-13-07) James D. Allen (5-26-07)  
Richard F. Purpura (8-2-07)

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

**3. Nature of conveyance/Execution Date(s):**

Execution Date(s) 8-13-2007; 8-2-2007; 8-14-2007; 5-26-07

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Joint Research Agreement  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☐ Other

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

Name: THE DIRECTV GROUP, INC.

Internal Address: CA / LA1 / A109

P.O. BOX 956

Street Address: 2230 E. IMPERIAL HIGHWAY

City: EL SEGUNDO

State: CALIFORNIA

Country: USA Zip: 90245-0956

Additional name(s) & address(es) attached? ☐ Yes ☒ No

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

☐ This document is being filed together with a new application.

A. Patent Application No.(s)

11/803,649

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

**5. Name and address to whom correspondence concerning document should be mailed:**

Name: THE DIRECTV GROUP, INC.

Internal Address: CA / LA1 / A109

P.O. BOX 956

Street Address: 2230 E. IMPERIAL HIGHWAY

City: EL SEGUNDO

State: CALIFORNIA Zip: 90245-0956

Phone Number: 310-964-4615

Fax Number: 310-964-0941

Email Address: gsgrunebach@directv.com

**6. Total number of applications and patents involved:** ONE (1)

**7. Total fee (37 CFR 1.21(h) & 3.41)** \$ 40.00

- ☐ Authorized to be charged by credit card  
☒ Authorized to be charged to deposit account  
☐ Enclosed  
☐ None required (government interest not affecting title)

**8. Payment Information**

a. Credit Card Last 4 Numbers 11803649  
Expiration Date 08/22/2007

b. Deposit Account Number 50-0383

Authorized User Name Georgann S. Grunebach

**9. Signature:**

Signature

August 20, 2007

Date

GEORGANN S. GRUNEBACH, REGISTRATION NO. 33,179

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents 5

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450



## ASSIGNMENT


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PD-205065A

WHEREAS, ROBERT G. ARSENAULT, RAYNOLD M. KAHN, RICHARD F. PURPURA, GILBERT ZALDIVAR And JAMES D. ALLEN as below named inventors of the cities and states as stated below next to their names, have invented an **INFRASTRUCTURE FOR INTERACTIVE TELEVISION APPLICATIONS** for which application for Letters Patent of the United States has been executed by us on this day, or (if the following is completed) filed on MAY 15, 2007 as Serial No. 11/803,649;

WHEREAS, The DIRECTV Group, Inc. (hereinafter referred to as the "Company"), 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 therefore in the United States and throughout the world;

NOW, THEREFORE, in consideration of the obligations voluntarily assumed by us and set forth in invention agreements between us and our employer, and other good and valuable consideration, receipt of which is hereby acknowledged, we do hereby sell, assign and transfer to the Company, its successors, assigns or other legal representatives, the entire and exclusive right, title and interest in and to said invention invented by us, 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 therefore 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 Company, 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 the Company, its successors, assigns or other legal representatives, upon request and at no cost or expense to us, any facts known by us 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 the Company, 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 the Company, 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 the Company, 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
ROBERT G. ARSENAULT		8/13/2007
RESIDENT (CITY AND STATE)		
Redondo Beach, California		

STATEMENT BY WITNESSI, KAREN L. LUM, whose full post office address is  
(name of witness)2230 E. IMPERIAL HIGHWAY, EL SEGUNDO, CA 90245  
(address of witness)

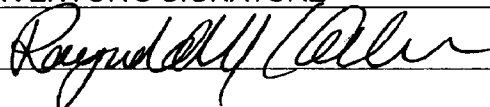
was personally present and did see ROBERT G. ARSENAULT, who is known to me, execute the above assignment.

8-13-2007

Date

  
Signature of Witness

IN WITNESS WHEREOF, I have executed this instrument.

FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
RAYNOLD M. KAHN		8/13/2007
RESIDENT (CITY AND STATE)		
Los Angeles, California		

STATEMENT BY WITNESSI, KAREN L. LUM, whose full post office address is  
(name of witness)2230 E. IMPERIAL HIGHWAY, EL SEGUNDO, CA 90245  
(address of witness)

was personally present and did see RAYNOLD M. KAHN, who is known to me, execute the above assignment.

8-13-2007

Date

  
Signature of Witness

IN WITNESS WHEREOF, I have executed this instrument.

FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
<b>RICHARD F. PURPURA</b> RESIDENT (CITY AND STATE)	<i>Richard Purpura</i>	8-2-2007
Orange, California		

STATEMENT BY WITNESS

I, KAREN L. LUM, whose full post office address is  
 (name of witness)

2230 E. IMPERIAL HIGHWAY, EL SEGUNDO, CA 90245  
 (address of witness)

was personally present and did see **RICHARD F. PURPURA**, who is known to me, execute the above

assignment.

8-2-2007  
 Date

*Karen L. Lum*  
 Signature of Witness

IN WITNESS WHEREOF, I have executed this instrument.

FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
<b>GILBERT ZALDIVAR</b> RESIDENT (CITY AND STATE)	<i>Gilbert Zaldivar</i>	8/14/07
Rancho Santa Margarita, California		

STATEMENT BY WITNESS

I, KAREN L. LUM, whose full post office address is  
 (name of witness)

2230 E. IMPERIAL HIGHWAY, EL SEGUNDO, CA 90245  
 (address of witness)

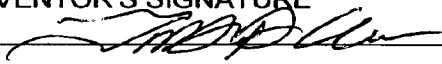
was personally present and did see **GILBERT ZALDIVAR**, who is known to me, execute the above

assignment.

8-14-07  
 Date

*Karen L. Lum*  
 Signature of Witness

IN WITNESS WHEREOF, I have executed this instrument.

FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE 	DATE 5/24/07
JAMES D. ALLEN		
RESIDENT (CITY AND STATE)		
Westlake Village, California		

STATEMENT BY WITNESSI, KEN PHILLIPS, whose full post office address is  
(name of witness)13507 BEAR VALLEY ROAD, MOONPARK, CA 93021  
(address of witness)was personally present and did see JAMES D. ALLEN, who is known to me, execute the above  
assignment.5/27/07  
Date  
Signature of Witness