02-15-2006



U.S. DEPARTMENT OF COMMERCE Form-PTO-1595 (Rev. 07/05) United States Patent and Trademark Office OMB No. 0651-0027 (exp. 6/30/2008) RECORDATION FORM CO 02.03.06 PATENTS ONLY PD-205080 To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below. 2. Name and address of receiving party(ies) 1. Name of conveying party(ies) Name: The DIRECTV Group, Inc. Kesse Ho Internal Address: P. O. Box 956 Additional name(s) of conveying party(ies) attached? 💹 Yes 🗹 No 3. Nature of conveyance/Execution Date(s): Street Address: 2250 E. Imperial Highway Execution Date(s) February 3, 2006 ✓ Assignment Merger City: El Segundo Change of Name Security Agreement Joint Research Agreement State: California Government Interest Assignment Zip: 90245 Country: US Executive Order 9424, Confirmatory License Additional name(s) & address(es) attached? L This document is being filed together with a new application. 4. Application or patent number(s): B. Patent No.(s) A. Patent Application No.(s) 02/14/20**4**6 DBYRNE 00000247 500383 29253322 01 FC:8021 40.00 BA Additional numbers attached? Yes 6. Total number of applications and patents 5. Name and address to whom correspondence involved: One (1) concerning document should be mailed: Name: The DIRECTV Group, Inc. 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40 Internal Address: RE/R11/A109, P. O. Box 956 Authorized to be charged by credit card ✓ Authorized to be charged to deposit account **Enclosed** Street Address: 2250 E. Imperial Highway None required (government interest not affecting title) 8. Payment Information City: El Segundo a. Credit Card Last 4 Numbers Zip: 90245 State: California **Expiration Date** Phone Number: (310) 964-4615 b. Deposit Account Number 50-0383 Fax Number: (310) 964-0941 Authorized User Name Georgann S. Grunebach Email Address: gsgrunebach@directv.com

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

Signature

Georgann S. Grunebach, Reg. No. 33,179

Name of Person Signing

9. Signature:

Total number of pages including cover

sheet, attachments, and documents:

February 3, 2006



## **ASSIGNMENT**

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WHEREAS, I, KESSE HO, 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). **ELLIPTICAL SATELLITE RECEIVE ANTENNA** 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 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 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 the Company, 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 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 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 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.

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IN WITNESS WHEREOF, I have executed this instrument.

FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
KESSE HO RESIDENT (CITY AND STATE)	Kene Her	2(3(06
WESTMINSTER, CALIFORNIA		

STATE OF CALIFORNIA	)	
	)	SS
COUNTY OF LOS ANGELES	)	

On February 3,2006 before me, JANET E. SHIBATA, a Notary Public in and for said State, personally appeared KESSE HO 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.

RECORDED: 02/03/2006

JANET E. SHIBATA COMM. # 1487989 SOUTH NOTARY PUBLIC-CALIFORNIA OLOS ANGELES COUNTY OLOMM. EXP. MAY 4, 2008

Notary Public

PATENT REEL: 017562 FRAME: 0859