	U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office REC	12-22-2004	PATEM Attorney Docket No. 204		
2	TO: The Commissioner of Patents and Trademarks:	102909574 Please record the attached on a	cument(s) or copy(ies).		
12/10/0	1. Submission Type  New Resubmission (Non-Recordation) Document # Correction of PTO Error Reel Frame Corrective Document Reel Frame	2. Nature of Conveya  Assignment  License  Merger	☐ Change of Name ☐ Other:		
Ī	. Conveying Party(ies): Mark if additional names of conveying parties attached.				
	Name Lin-Nan Lee Name Feng-Wen Sun Name Adam Von Ancken Name	Execution Date:	12/9/2004 (m/d/yyyy) 12/9/2004 (m/d/yyyy) 12/10/2004 (m/d/yyyy) (m/d/yyyy)		
	4. Receiving Party: Name: The DIRECTV Group, Inc. Address: 2250 East Imperial Highway El Segundo, CA 90245	Address: RE/R11/ P.O. Box El Segur	ECTV Group, Inc. A109 c 956 ndo, CA 90245-0956 ocument and the attached documents		
	Application Number(s) or Patent Number(s)     Either enter the Patent Application Number or the Patent Application Number(s)	nt Number (DO NOT ENTER BOTH numbers i	Mark if additional numbers attached.  NOT ENTER BOTH numbers for the same property).  Patent Number(s)		
	If this document is being filed together with a new Patent Application, enter the date that the patent application was executed by the first named inventor.  7. Patent Cooperation Treaty (PCT) Numbers:  Enter PCT application number(s) PCT PCT PCT PCT Only if a U.S. Application Number has not been assigned.				
Ì	8. Number of Properties: Enter the total number of properties involved: 1.				
	9. Fee Transmittal: Fee amount for listed properties (37 CFR 3.41): \$ 40.00  Method of Payment:				
	10. 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. Charges to deposit account are authorized as indicated herein.  Craig L. Plastrik, Reg. No. 41,254				
	2004 ECOOPER 00000106 500383 11009346	Signature  Total number of	Date of pages comprising cover sheet: 1		
rLi	3021 40.00 DA				

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## **ASSIGNMENT**

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Attorney Docket No: PD-204019

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 <u>METHOD AND APPARATUS</u> FOR <u>MINIMIZING CO-CHANNEL INTERFERENCE</u>:

for which application for Letters Patent of the United States has been executed by me on this day; of
which is embodied in U.S. Patent Application Serial No filed on

WHEREAS, **THE DIRECTV GROUP, INC.**, 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 THE DIRECTV GROUP, INC., 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 THE DIRECTV GROUP, INC., 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 DIRECTV GROUP, INC., 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 DIRECTV GROUP, INC., 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 DIRECTV GROUP, INC., 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 DIRECTV GROUP, INC., its successors, assigns or other legal representatives.

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ASSIGNMENT
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## IN WITNESS WHEREOF, I have executed this instrument:

Full Name of Sole or Joint Inventor:	Inventor's Signature:	Date:			
Lin-Nan Lee	Lin-ha Ler	12/9/04			
Residence (City and State)		INVENTION AGREEMENT DATE			
Potomac, MD					
Full Name of Joint Inventor:	Inventor's Signature:	Date:			
Feng-Wen Sun	167165	12-1-1-			
Residence (City and State)		INVENTION AGREEMENT DATE			
Germantown, MD					
Full Name of Joint Inventor:	Inventor's Signature:	Date:			
Adam Von Ancken	MILLE	12-10-04			
Residence (City and State)		INVENTION AGREEMENT DATE			
New Market, MD					
Full Name of Joint Inventor:	Inventor's Signature:	Date:			
Residence (City and State)		INVENTION AGREEMENT DATE			
STATE OF					
STATE OF					

RECORDED: 12/10/2004

PATENT REEL: 016081 FRAME: 0319