Patent and Trademark Office REC TO: The Commissioner of Patents and Trademarks: Submission Type New Resubmission (Non-Recordation) Document # Correction of PTO Error Reel Frame Corrective Document Reel Frame Conveying Party(ies): Name Jack Lundstedt, Jr. Name John Schmid Name Richard Sims Name Peter Hou REC	102: Please 1000	2. Nature of Conveya Assignment License Merger Additional names of conveya Execution Date:	Attorney Docket No. :ument(s) or copy(ies). ance: Security Agreement Change of Name Other: Other: 10/11/2004 (m/d/yyyy)	22278 U.S. PTO
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Name John Schmid Name Richard Sims Name Peter Hou			, , , , , , , , , , , , , , , , , , , ,	
Name Richard Sims Name Peter Hou		Execution Date:		
Name Peter Hou			10/12/2004 (m/d/yyyy)	
			10/11/2004 (m/d/yyyy)	
Receiving Party:		Execution Date:	10/12/2004 (m/d/yyyy)	
		5. Correspondent Na	ame and Address:	
Name: The DIRECTV Group, Inc.		Name: The DIR	RECTV Group, Inc.	
Address: 2250 East Imperial Highway		Address: RE/R11	/A109	
El Segundo, CA 90245		P.O. Bo	x 956	
		El Segu	ndo, CA 90245-0956	
		Please associate this owith customer no. 209	document and the attached docur	nen
Patent Application Number(s) If this document is being filed together with a new Pate	ent Application, e		atent Number(s) 10/11/2004 (m/d/yyyy))
application was executed by the first named inventor.				
7. Patent Cooperation Treaty (PCT) Numbers	S :			
Enter PCT application number(s) Poly if a U.S. Application Number	CT	PCT	PCT	
has not been assigned.	CT	PCT	PCT	
3. Number of Properties: Enter	the total num	ber of properties involve	ed: 1.	
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10. Statement and signature:				
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Craig L. Plastrik, Reg. No. 41,254	C21	2	10-18-2004	
Name of Person Signing	Si	gnature Total number	Date of pages comprising cover shee	-t- '
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Additional Name(s) of Conveying Parties:

Name: Execution Date

Patrick Marrone October 11, 2004

Lawrence Cronise October 12, 2004

ASSIGNMENT

Page 1 of 4 Attorney Docket No: PD-204050

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 **METHOD AND APPARATUS FOR SATELLITE ANTENNA POINTING**:

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.

ASSIGNMENT Page 2 of 4 Attorney Docket No: PD-204050

IN WITNESS WHEREOF, I have executed this instrument:

Inventor's Signature:	Date:
Jack I hundly of	10-11-04
U	INVENTION AGREEMENT DATE
Inventor's Signature:	Date:
din AS	10-12-04
0	INVENTION AGREEMENT DATE
Inventor's Signature:	Date:
Richard Simo	10/11/04
	INVENTION AGREEMENT DATE
Inventor's Signature:	Date:
Melaton	10/12/04
	INVENTION AGREEMENT DATE
Inventor's Signature:	Date:
Poten 2 May	10.11-04
	INVENTION AGREEMENT DATE
Inventor's Signature:	Date:
Lumence Crondo	10/12/2004
	INVENTION AGREEMENT DATE
SS: JUSTIC JOSE JUSTIC JOSE JUSTIC JOSE JUSTIC JUSTIC	red capacity(i es), and that by his/h er/their*
	Inventor's Signature: Character Signature: Inventor's Signature: Inventor's Signature: Patra 2 Manna Inventor's Signature: Linual Signature:

ASSIGNMENT Page 3 of 4 Attorney Docket No: PD-204050

STATE OF Maryland	_)	
COUNTY OF Thederick) SS:)	
on Oct. 12 2004 before me, 1	liania L. Jo	rale
a Notary Public in and for said State, personally appeared ✓ personally known to me or ☐ proved to me on the base	sis of satisfactory evidence to be	e the person(s) whose name(s) is/s/e subscribed to the
within instrument and acknowledged to me that he/she/the signature(s) on the instrument the person(s), or the entity	ey executed the same in his/her upon behalf of which the person	n/their authorized capacity(ies), and that by his/her/their n/s) acted, executed the instrument.
WITNESS my hand and official seal.	Notary Public	Virginia & Doyle
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		VIRGINAL FOOLE Hola-9-9-1010 Frederic County
STATE OF Maryland	,	My Common of English Feb 28, 2005
COUNTY OF Frederick	- (ss:	The same of the sa
on Oct - 11, 2004 before me, V.	vainin L. Fr	ogle
a Notary Public in and for said State, personally appeared personally known to me or proved to me on the bas within instrument and acknowledged to me that he/she/thr signature(s) on the instrument the person(s), or the entity	sis of satisfactory evidence to be by executed the same in his/her	witheir authorized capacity(ies), and that by his/her/their
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PATENT

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ASSIGNMENT Page 4 of 4 Attorney Docket No: PD-204050

STATE OF MANAGED)	
COUNTY OF Frederick		
On 10t 11, 2004 before me,	Dirainia & Joale	
a Notary Public in and for said State, personally appear	ed Patrick Warrone	
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WITNESS my hand and official seal.	Notary Public Visainia & Joule	
•		
	VIRGINIA L. FOGLE	
	Notary Public	
	Frederick County Maryland	
STATE OF Maryland	My Commission Expires Feb 28, 2005	
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RECORDED: 10/18/2004