

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4178729

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
BARRETT KREINER	12/07/2010
JONATHAN REEVES	12/07/2010
RYAN SCHAUB	12/08/2010
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	AT&T INTELLECTUAL PROPERTY I, L.P.
<b>Street Address:</b>	645 E. PLUMB LANE
<b>City:</b>	RENO
<b>State/Country:</b>	NEVADA
<b>Postal Code:</b>	89502
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14753994
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	3125801020
<b>Email:</b>	mcarver@hfzlaw.com
<b>Correspondent Name:</b>	HANLEY, FLIGHT & ZIMMERMAN, LLC
<b>Address Line 1:</b>	150 S. WACKER DRIVE
<b>Address Line 2:</b>	SUITE 2200
<b>Address Line 4:</b>	CHICAGO, ILLINOIS 60606
<b>ATTORNEY DOCKET NUMBER:</b>	2009-1010CON
<b>NAME OF SUBMITTER:</b>	MICHAEL J. LENISA
<b>SIGNATURE:</b>	/Michael J. Lenisa/
<b>DATE SIGNED:</b>	12/09/2016
<b>Total Attachments: 3</b>	
source=2009-1010 Assignment#page1.tif	
source=2009-1010 Assignment#page2.tif	
source=2009-1010 Assignment#page3.tif	

## ASSIGNMENT

Serial No: 12/963,504

Filed: December 8, 2010

Title: METHODS AND APPARATUS FOR COMMUNICATING WITH GROUPS OF DEVICES SHARING AN ATTRIBUTE

For good and valuable consideration, the receipt and sufficiency whereof are hereby acknowledged, the undersigned hereby assigns to AT&T INTELLECTUAL PROPERTY I, L.P., a Nevada Partnership, 645 E. Plumb Lane, Reno, Nevada 89502 (hereinafter "Assignee"), its successors and assigns, the entire right, title and interest in the invention or improvements of the undersigned disclosed in an application for Letters Patent of the United States (which may be a Patent Cooperation Treaty International application designating the United States) and in said application and any and all other applications, United States, international and/or foreign, which the undersigned may file, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States and/or foreign countries, which may be obtained on any of said applications, and in any reissue or extension thereof.

The undersigned hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent to said assignee.

The undersigned hereby authorizes and requests the attorneys of record in said application to insert in this assignment the execution date and/or filing date and serial number of any such application(s) when officially known.

The undersigned warrants himself to be the owner of the interest herein assigned and to have the right to make this assignment and further warrants that there are no outstanding prior assignments, licenses, or other rights in the interest herein assigned.

For said consideration the undersigned hereby agrees, upon the request and at the expense of said assignee, its successors and assigns, to execute any and all international, divisional, continuation, continuation-in-part and substitute applications for said invention or improvements, and any necessary oath or affidavit relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said application, and any and all applications and other documents for Letters Patent in foreign countries on said invention or improvements, that said assignee, its successors or assigns, may deem necessary or expedient, and for said consideration the undersigned further agrees upon the request of said assignee, its successors or assigns, in the event of any application or Letters Patent assigned herein becoming involved in Interference, to cooperate to the best of the ability of the undersigned with said assignee, its successors or assigns, in the matters of preparing and executing the preliminary statement and giving and producing evidence in support thereof, the undersigned hereby agreeing to perform, upon request, any and all affirmative acts to obtain said Letters Patent, both United States and foreign, and vest all rights therein hereby conveyed in said assignee, its successors and assigns, whereby said Letters Patent will be held and enjoyed by said assignee, its successors and assigns, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held and enjoyed by the undersigned if this

Barrett Kreiner  
BARRETT KREINER

Date: 12/7/2010

STATE OF Georgia  
COUNTY OF Fulton

ss.

On this 7th day of Dec, 2010, before me, a Notary Public in and for the County and State aforesaid, appeared BARRETT KREINER, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act and for the uses and purposes therein expressed.

Notary Public:

Karen V. Segars

WITNESS my hand and seal the same day and year last above given.

My Commission Expires:

7-24-2012

\*\*\*\*\*

Jonathan L. Reeves  
JONATHAN REEVES

Date: 12-7-2010

STATE OF Georgia  
COUNTY OF Fulton

ss.

On this 7th day of Dec, 2010, before me, a Notary Public in and for the County and State aforesaid, appeared JONATHAN REEVES, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act and for the uses and purposes therein expressed.

Notary Public:

Karen V. Segars

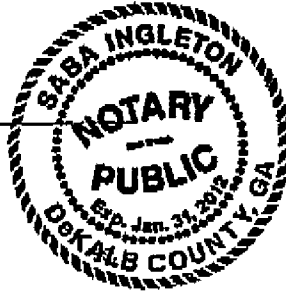
WITNESS my hand and seal the same day and year last above given.

My Commission Expires:

7-24-2012

\*\*\*\*\*

  
RYAN SCHAUB

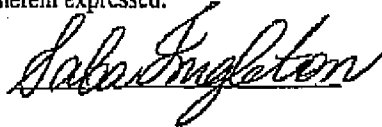


Date: 12/8/2010

STATE OF  
COUNTY OF

On this 8 day of DECEMBER, 2010, before me, a Notary Public in and for the County and State aforesaid, appeared RYAN SCHAUB, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act and for the uses and purposes therein expressed.

Notary Public:



WITNESS my hand and seal the same day and year last above given.

My Commission Expires:

JANUARY 31 2012.

\*\*\*\*\*