505310731 02/04/2019

EPAS ID: PAT5357511

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

SUBMISSION TYPE: NEW ASSIGNMENT NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
J. GORDON BEATTIE JR.	11/13/2009
STEPHEN J. GRIESMER	11/20/2009
ARVIND R. MALLYA	11/13/2009

RECEIVING PARTY DATA

Name:	AT&T INTELLECTUAL PROPERTY I, L.P.
Street Address:	675 W. PEACHTREE STREET
Internal Address:	SUITE 4000
City:	ATLANTA
State/Country:	GEORGIA
Postal Code:	30308

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16240228

CORRESPONDENCE DATA

Fax Number: (847)510-0710

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using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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AT&T LEGAL DEPARTMENT - GG ATTN: PATENT **Correspondent Name:**

Address Line 1: **ROOM 2A-207** Address Line 2: ONE AT&T WAY

Address Line 4: BEDMINSTER, NEW JERSEY 07921

ATTORNEY DOCKET NUMBER:	7785-0813-03
NAME OF SUBMITTER:	STACEY HILL
SIGNATURE:	/Stacey Hill/
DATE SIGNED:	02/04/2019

Total Attachments: 5

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> **PATENT REEL: 048226 FRAME: 0549** 505310731

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> PATENT REEL: 048226 FRAME: 0550

Attorney Docket No.: 2008-1809

ASSIGNMENT

WHEREAS, J. Gordon Beattie, Jr., a citizen of the United States of America; residing at 206 N. Vivyen Street, Bergenfield, New Jersey 07621 in the County of Bergen, Stephen J. Griesmer, a citizen of the United States of America; residing at 412 Quantuck Lane, Westfield, New Jersey 07090 in the County of Union, Arvind R. Mallya, a citizen of the United States of America; residing at 1045 Alfred Avenue, Walnut Creek, California 94596 in the County of Contra Costa, hereinafter called the "Assignors," have made the invention described in the United States patent application entitled "System and Method for Layered Delivery of Media Content Quality," Attorney Docket No. 2008-1809, for a full description of which reference is here made to an application for Letters Patent of the United States filed herewith; and

WHEREAS, AT&T INTELLECTUAL PROPERTY I, L.P., a partnership organized and existing under the laws of the State of Nevada, having a place of business at 645 E. Plumb Lane, Reno, Nevada 89502, hereinafter called the "Assignee," desires to acquire the entire right, title and interest for the United States of America and elsewhere throughout the world in and to said invention and the patent application identified above, including any and all divisions and continuations thereof and any and all Letters Patent which may be granted thereon, including any and all renewals, reissues and prolongations thereof.

NOW, THEREFORE in consideration of the sum of One Dollar (\$1.00) and other valuable and legally sufficient consideration, the receipt of which by the Assignors from the Assignee is hereby acknowledged, the Assignor has sold, assigned and transferred, and by these presents does sell, assign and transfer to the Assignee, the entire right, title and interest for the United States in and to the invention and the patent application identified above, and any patents that may issue for said invention in the United States; together with the entire right, title and interest in and to said invention and all patent applications and patents therefor in all countries foreign to the United States, including the full right to claim for any such application all benefits and priority rights under any applicable convention; together with the entire right, title and interest in and to all continuations, divisions, renewals and extensions of any of the patent applications and patents defined above; to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term and terms for all such patents.

AND said Assignor hereby covenants and agrees, for both the Assignor and the Assignor's legal representatives, that the Assignor will assist the Assignee in the prosecution of the patent application identified above; in the making and prosecution of any other patent applications that the Assignee may elect to make covering the invention identified above; in vesting in the Assignee like exclusive title in and to all such other patent applications and patents; and in the prosecution of any interference which may arise involving said invention, or any such patent application or patent; and that the Assignors will execute and deliver to the Assignee to carry out the terms of this Assignment. Assignors authorize attorney or agent to fill in the U.S. Application Serial No. above, if required.

AND said Assignor authorizes and requests the Commissioner of Patents to issue Letters Patent on said application, and on any all divisions and continuations thereof, to said Assignee, its assigns and legal representatives, in accordance with the terms of this Assignment.

- 1 -

PATENT REEL: 023712 FRAME: 0099

PATENT REEL: 048226 FRAME: 0551

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gnature of Inventor.	Jon by Book		
ate:	13NOV.2009		
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United States of America State of Truck Jessey)		
County of Gergen	,)		
n this 12 day of Manual	mfun, 2009, before me personally c	ame I Gordon Beamie 1	to me known to
the individual described in and who	executed the foregoing instrument, and ackn	nowledged execution of the	same.
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	(you)	VIVIANCE	SOMMER
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United States of America	· ·	,	
State of)		
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in this day or	cuted the foregoing instrument, and acknow	ame Stephen J. Gnesme: dedged execution of the sa	r to me known to be
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PATENT REEL: 023712 FRAME: 0100

REEL: 048226 FRAME: 0552

Attorney Docket No.: 2008- 809

date(s) listed below.		
Name of Inventor:	J. Gordon Beattie, Jr.	
Signature of Inventor:		
Date:		
United States of America)	;
State of County of)·	
On this day of be the individual described in and w	, 20, before me personally came J. Gordon Beattie, Jr., to me ho executed the foregoing instrument, and acknowledged execution of the same.	kuuwn to
	Notary Public	
Name of Inventor:	Stephen J. Griesmer	
Signature of Inventor:	Stylin / Fringe	
Date:	Normber 20, 2009	
United States of America State of New Tersey County of Man mouth		:
On this 30 day of Nove the individual described in and who	executed the foregoing instrument, and acknowledged execution of the same.	known to be
	Notary Rublic Cae de	
	KAREN M. CREDLE A NOTARY OF NEW JERSEY	
MY C	COMMISSION EXPIRES AUGUST 25, 2013	:

- 2 -

PATENT

REEL: 023712 FRAME: 0101

Attorney Docket No.: 2008-1809

Name of Inventor:	Arvind R. Mallya Awind R. Marlya 4/13/09
Signature of Inventor:	
Date:	4/13/07
United States of America State of CONVA CONTENT County of On this day of the individual described in and who execute	, 20, before me personally came Arvind R. Mallya, to me known to be ed the foregoing instrument, and acknowledged execution of the same.
	Notary Public

- 3 -

PATENT REEL: 023712 FRAME: 0102

State of California	•
State of California	
County of Contra Costa	(
11/12/20	Topo of the D. Company
On 1113 De before me	acqueline K-barrett mitary pu
personally appeared ARVIND	A LA LA LA C.
portionally appoaled	acquelline R-Garrett - whay pure Level I have listed the Officer 2. Mally Rame(s) of Signer(s)
	who proved to me on the basis of satisfactory evidence to be the person(s) whose name(e) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/he/their authorized
JACQUELINE R. GARRETI Commission # 1847381 Notary Public - Cathornia Contra Costa County My Comm. Expires May 2, 2013	eapacity(ies), and that by his ner/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.
	I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.
	WITNESS my hand and official seal.
	(Va - 1) Quantala
Place Notary Seal Above	Signature Signature of Majary Fublic
	OPTIONAL
Though the information below is not required by and could prevent fraudulent removel	law, it may prove valuable to persons relying on the document and reattachment of this form to another document.
Description of Attached Document	and realizationers of this form to another document.
	Number of Pages:
Signer(s) Other Than Named Above:	
Capacity(ies) Claimed by Signer(s)	
ligner's Name:	Signer's Name:
igner's Name:	☐ Individual
igner's Name:	☐ Individual ☐ Corporate Officer — Title(s):
igner's Name: Individual Corporate Officer — Title(s); Partner — ☐ Limited ☐ General	☐ Individual ☐ Corporate Officer — Title(s): ☐ Partner — ☐ Limited ☐ General
igner's Name: Individual Corporate Officer — Title(s): Partner — ☐ Limited ☐ General Attorney in Fact Trustee	☐ Individual ☐ Corporate Officer — Title(s): ☐ Partner — ☐ Limited ☐ General ☐ Attorney in Fact
igner's Name: Individual Corporate Officer — Title(s): Partner — ☐ Limited ☐ General Attorney in Fact Trustee Guardian or Conservator	☐ Individual ☐ Corporate Officer — Title(s): ☐ Partner — ☐ Limited ☐ General ☐ Attorney in Fact ☐ Trustee ☐ Trustee ☐ Individual ☐ General ☐ General ☐ Figure — ☐ OFSIGNER ☐ Top of Ihumb here
igner's Name: Individual Corporate Officer — Title(s): Partner — ☐ Limited ☐ General Attorney in Fact Trustee Guardian or Conservator	☐ Individual ☐ Corporate Officer — Title(s): ☐ Partner — ☐ Limited ☐ General ☐ Attorney in Fact ☐ Attorney in Fact ☐ General ☐ CFSIGNER
igner's Name: Individual Corporate Officer — Title(s): Partner — ☐ Limited ☐ General Attorney in Fact	☐ Individual ☐ Corporate Officer — Title(s): ☐ Partner — ☐ Limited ☐ General ☐ Attorney in Fact ☐ Trustee ☐ Guardian or Conservator
igner's Name:	☐ Individual ☐ Corporate Officer — Title(s): ☐ Partner — ☐ Limited ☐ General ☐ Attorney in Fact ☐ Trustee ☐ Guardian or Conservator ☐ Other:

PATENT

REEL: 023712 FRAME: 0103

PATENT REEL: 048226 FRAME: 0555

RECORDED: 02/04/2019

RECORDED: 12/29/2009