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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
VANEET AGGARWAL	02/15/2013
DINESH BHARADIA	02/19/2013
RITTWIK JANA	02/14/2013
CHRISTOPHER W. RICE	02/13/2013
NEMMARA K. SHANKARANARAYANAN	02/14/2013

RECEIVING PARTY DATA

Name:	AT&T Intellectual Property I, LP
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:	15239144

CORRESPONDENCE DATA

Fax Number: (847)510-0710

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.

Email: docketing@ggip.com

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

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

Address Line 4: BEDMINSTER, NEW JERSEY 07921

ATTORNEY DOCKET NUMBER:	7785-0959-03
NAME OF SUBMITTER:	ANDREW GUST
SIGNATURE:	/Andrew Gust/
DATE SIGNED:	08/23/2016

Total Attachments: 6

PATENT REEL: 039512 FRAME: 0716

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PATENT REEL: 039512 FRAME: 0717

ASSIGNMENT

WHEREAS We, Vaneet Aggarwal, residing at 889 Edwards Road #C-10, Parsippany, NJ 07054, and Dinesh Bharadia, residing at 126 Black Welder CT, APT 405A, Stanford, CA 94305, and Rittwik Jana, residing at 69 Albert Court, Parsippany, NJ 07054, and Christopher W. Rice, residing at 3 Pinecrest Lane, Parsippany, Morris, NJ 07054, and Nemmara K. Shankaranarayanan, residing at 18 Kershaw Court, Bridgewater, NJ 08807, hereinafter referred to as Assignor, am listed as an inventor on a patent application entitled APPARATUS AND METHOD FOR INTERFERENCE CANCELLATION IN COMMUNICATION SYSTEMS; having AT&T Docket No. 2013-0887, the patent application to be filed in the United States Patent & Trademark Office; and

WHEREAS, AT&T Intellectual Property I, LP, a Partnership, organized and existing under the laws of Nevada and having an address at 675 W. Peachtree Street, Suite 4000, Atlanta, GA 30375, (hereinafter referred to as 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 thereto;

NOW THEREFORE, be it known that for and in consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I, as Assignor, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, my entire right, title, and interest in and to this invention and this non-provisional application, and all divisions, substitutions, and continuations thereof; and all Letters Patent of the United States which may be granted thereon, and all reexaminations and reissues thereof; and all rights to claim priority on the basis of the above provisional application (if any), as well as all rights to claim priority on the basis of this application; and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, including certificates of inventions, utility models, industrial design protection, design patent protection, and other governmental grants or issuances; and all extensions, renewals, prolongations, and reissues thereof; 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, I HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I HEREBY covenant that I have the full right to convey the interest assigned by this Assignment, and I have not executed and will not execute any assignment, sale, license, agreement, or encumbrance in conflict with this Assignment;

AND, I HEREBY further covenant and agree, for the Assignor and the Assignor's legal representatives, that I will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to us respecting this invention; assist the Assignee in the prosecution of the patent application identified above; assist in the making and prosecution of any other patent applications that the Assignee may elect to make covering the invention identified above; testify in any interference, litigation, or other legal proceeding; sign all lawful papers when called upon to do so; execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns; execute all divisional, continuation, and reissue applications; make all rightful oaths and generally do everything possible to aid Assignee, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee; and hereby instruct, and further covenant and agree to bind our heirs, legal representatives, and assigns, to do same, without compensation, but at the expense of Assignee or its representatives.

PATENT REEL: 039512 FRAME: 0718 AND, I HEREBY consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of AT&T Intellectual Property I, LP to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

This Assignment may be executed in any number of counterparts, each of which when so executed and delivered shall be deemed an original, and such counterparts together shall constitute one and the same instrument. A facsimile copy of this Assignment, or any form of an electronic copy of this Assignment, including the signature pages hereto, shall be deemed to be an original.

State of Norman State of Towns State

IN TESTIMONY WHEREOF, I have here	Dinesh Bharad		ebruarz, 2013.
State of <u>California</u>) County of <u>Santa clara</u>		N. M.	KATHPYN ANN CLARK Commission # 1927246 Notary Public - California Santa Clara County / Comm Expires Mar 30, 2015
On this 16 day of Fubrus County and State, personally appeared 15 foregoing assignment as his/her free act an			
Notary Public My C	ommission Expires: _	March	BO, 2015

IN TESTIMONY WHEREOF, I have hereunto set my hand this 14 day of February, 2013. Kittingare Rittwik Jana
State of) County of
On this 14 day of February, 2013, before me a Notary Public in and for the above County and State, personally appeared Rittink Jana, and acknowledged the execution of the foregoing assignment as his/her free act and deed for the purpose herein set forth.
My Commission Expires: INGRID FILANNING Novary Public My Commission Expires: ID # 2226569 NOTARY PUBLIC OF NEW JERSEY Commission Expires 6/15/2014

INGRID FILANNINO
ID # 2226569
NOTARY PUBLIC OF NEW JERSEY
Commission Expires 6/15/2014

IN TESTIMONY WHEREOF, I have hereunto seems hand this 3 day of FERUARY, 2013. Christopher W. Rice
State of New Jersey
County of UNION
On this 13 day of February, 2013, before me a Notary Public in and for the above County and State, personally appeared Christopher W-Rice, and acknowledged the execution of the foregoing assignment as his/her free act and deed for the purpose herein set forth.
Notary Public My Commission Expires: INGRID FILANNINO ID # 2226569 NOTARY PUBLIC OF NEW IERSEY Commission Expires 6/15/2014

	IN TESTIMONY WHEREOF, I	have hereunto set my hand this	14 day of February 2013.	
		<u>ALMA</u> Nemmara K. S	hankaranarayanan	
	State of NJ County of Union	_)		
	On this 44 day on 44 County and State, personally app	eared <u>Norway and Case and Allerta</u>	me a Notary Public in and for the above the above the acknowledged the execution pose herein set forth.	e of
gri	d Sulammo Notary Public	My Commission Expires: _	INGRID FILANNINO	