

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT5806466

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the THE ASSIGNEE NAME TO AT&T INTELLECTUAL PROPERTY I, L.P. AND THE ASSIGNOR NAME TO MILAP V. MAJMUNDAR previously recorded on Reel 045242 Frame 0225. Assignor(s) hereby confirms the ASSIGNMENT.
CONVEYING PARTY DATA	
Name	Execution Date
RITTWIK JANA	04/24/2015
RATNESH KUMBHKAR	04/27/2015
ARUNABHA GHOSH	05/22/2015
MILAP V. MAJMUNDAR	04/20/2015
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:	15921364
CORRESPONDENCE DATA	
Fax Number:	(216)696-8731
<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>	
Phone:	2166968730
Email:	epas@thepatentattorneys.com
Correspondent Name:	AT&T LEGAL DEPARTMENT - AT&W
Address Line 1:	ONE AT&T WAY
Address Line 2:	ROOM 2A 212
Address Line 4:	BEDMINSTER, NEW JERSEY 07921
ATTORNEY DOCKET NUMBER:	2014-0836 CON/ATTWP723USA
NAME OF SUBMITTER:	THOMAS E. WATSON
SIGNATURE:	/Thomas E. Watson/
DATE SIGNED:	11/06/2019

PATENT

Total Attachments: 16

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United States Patent and Trademark Office

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*Electronic Patent Assignment System***Confirmation Receipt**

Your assignment has been received by the USPTO.
The coversheet of the assignment is displayed below:

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>RITTIK JANA</td> <td>04/24/2015</td> </tr> <tr> <td>RATNESH KUMBHKAR</td> <td>04/27/2015</td> </tr> <tr> <td>ARUNABHA GHOSH</td> <td>05/22/2015</td> </tr> <tr> <td>MILAP MAJMUNDAR → Milap V. Majmunder</td> <td>04/20/2015</td> </tr> </tbody> </table>		Name	Execution Date	RITTIK JANA	04/24/2015	RATNESH KUMBHKAR	04/27/2015	ARUNABHA GHOSH	05/22/2015	MILAP MAJMUNDAR → Milap V. Majmunder	04/20/2015
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<u>AT&T INTELLECTUAL PROPERTY I, L.P.</u>											
Name:	AT & T INTELLECTUAL PROPERTY I, L.P. →										
Street Address:	675 W. PEACHTREE STREET										
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Application Number:	15921364										

PATENT

CORRESPONDENCE DATA

Fax Number: (216)696-8731
Phone: 216-696-8730
Email: epas@thepatentattorneys.com
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.
Correspondent Name: AMIN, TUROCY & WATSON, LLP
Address Line 1: 127 PUBLIC SQUARE
Address Line 2: 57TH FLOOR, KEY TOWER
Address Line 4: CLEVELAND, OHIO 44114

ATTORNEY DOCKET NUMBER:

2014-0836 CON/ATTWP723USA

NAME OF SUBMITTER:

THOMAS E. WATSON

Signature:

/Thomas E. Watson/

Date:

03/15/2018

Total Attachments: 8

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RECEIPT INFORMATION

EPAS ID: PAT4868863
Receipt Date: 03/15/2018

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PATENT

ASSIGNMENT

WHEREAS I, **RITTWIK JANA** residing at 1Peachtree Drive, Montville, NJ 07045 hereafter referred to as Assignor, am listed as an inventor on a patent application entitled **SYSTEM AND METHOD FOR HARQ IN CLOUD RAN WITH LARGE FRONT HAUL LATENCY,**” having AT&T Docket No. **2014-0836**, the patent application to be filed in the United States Patent & Trademark Office; and

WHEREAS, **AT&T INTELLECTUAL PROPERTY I, L.P.**, a Partnership organized and existing under the laws of Nevada and having an address at 675 W. Peachtree Street, Suite 4000, Atlanta, GA 30308 (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.

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, L.P.** 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.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 24 day of APRIL, 2015.

Rittwik Jana
RITTWIK JANA

State of New Jersey)

County of Somerset)

On this 24 day of April, 2015, before me a Notary Public in and for the above County and State, personally appeared RITTWIK JANA, and acknowledged the execution of the foregoing assignment as his/her free act and deed for the purpose herein set forth.

Gail Petz
Notary Public

GAIL PETZ
NOTARY PUBLIC OF NEW JERSEY
ID # 2438146

My Commission Expires: _____ ~~My Commission Expires 9/6/2018~~

ASSIGNMENT

WHEREAS I, **RATNESH KUMBHKAR** residing at 80, Castle Pointe Blvd, Piscataway, NJ, 08854 hereafter referred to as Assignor, am listed as an inventor on a patent application entitled "SYSTEM AND METHOD FOR HARQ IN CLOUD RAN WITH LARGE FRONT HAUL LATENCY," having AT&T Docket No. **2014-0836**, the patent application to be filed in the United States Patent & Trademark Office; and

WHEREAS, **AT&T INTELLECTUAL PROPERTY I, L.P.**, a Partnership organized and existing under the laws of Nevada and having an address at 675 W. Peachtree Street, Suite 4000, Atlanta, GA 30308 (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.

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, L.P.** 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.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 27th day of April, 2015.

Ratnesh Kumbhkar
RATNESH KUMBHKAR

State of New Jersey)

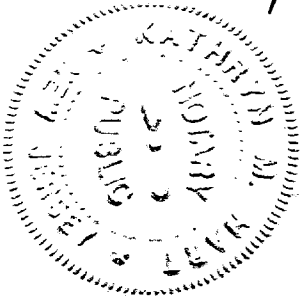
County of Middlesex)

On this 27 day of April, 2015, before me a Notary Public in and for the above County and State, personally appeared RATNESH KUMBHKAR, and acknowledged the execution of the foregoing assignment as his/her free act and deed for the purpose herein set forth.

Kathryn M. Hart
Notary Public

KATHRYN M. HART
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires 6/5/2016

My Commission Expires: _____



ASSIGNMENT

WHEREAS I, **ARUNABHA GHOSH** residing at 9805 Bundoran Drive, Austin, TX 78717 hereafter referred to as Assignor, am listed as an inventor on a patent application entitled "SYSTEM AND METHOD FOR HARQ IN CLOUD RAN WITH LARGE FRONT HAUL LATENCY," having AT&T Docket No. **2014-0836**, the patent application to be filed in the United States Patent & Trademark Office; and

WHEREAS, **AT&T INTELLECTUAL PROPERTY I, L.P.**, a Partnership organized and existing under the laws of Nevada and having an address at 675 W. Peachtree Street, Suite 4000, Atlanta, GA 30308 (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.

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, L.P.** 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.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 22 day of May, 2015.

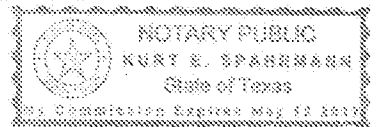
[Signature]
ARUNABHA GHOSH

State of TEXAS)
County of WILMAMSON)

On this 22 day of May, 2015, before me a Notary Public in and for the above County and State, personally appeared ARUNABHA GHOSH, and acknowledged the execution of the foregoing assignment as his/her free act and deed for the purpose herein set forth.

[Signature]
Notary Public

My Commission Expires: May 12, 2017



ASSIGNMENT

WHEREAS I, MILAP V. MAJMUNDAR residing at 9620 Cinnabar Trail, Austin, TX 78726 hereafter referred to as Assignor, am listed as an inventor on a patent application entitled "SYSTEM AND METHOD FOR HARQ IN CLOUD RAN WITH LARGE FRONT HAUL LATENCY," having AT&T Docket No. 2014-0836, the patent application to be filed in the United States Patent & Trademark Office; and

WHEREAS, AT&T INTELLECTUAL PROPERTY I, L.P., a Partnership organized and existing under the laws of Nevada and having an address at 675 W. Peachtree Street, Suite 4000, Atlanta, GA 30308 (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;

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IN TESTIMONY WHEREOF, I have hereunto set my hand this 20th day of APRIL, 2015.

Milap V. Majmudar
MILAP V. MAJMUNDAR

State of Texas)

County of Travis)

On this 20 day of April, 2015, before me a Notary Public in and for the above County and State, personally appeared MILAP V. MAJMUNDAR, and acknowledged the execution of the foregoing assignment as his/her free act and deed for the purpose herein set forth.

Amy R. Norman
Notary Public

My Commission Expires: 8-10-16

