11/24/2020 506370496

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6417252

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MOSTAFA TOFIGHBAKHSH	03/27/2019
SHRABONI JANA	03/26/2019
BOGDAN UNGUREANU	03/26/2019
DEVA-DATTA SHARMA	03/26/2019
RITTWIK JANA	03/27/2019

RECEIVING PARTY DATA

Name:	AT&T INTELLECTUAL PROPERTY I, L.P.
Street Address:	754 PEACHTREE ST. NE
Internal Address:	SUITE 7C
City:	ATLANTA
State/Country:	GEORGIA
Postal Code:	30308

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17102892

CORRESPONDENCE DATA

Fax Number: (216)696-8731

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.

Phone: 2166968730

Email: epas@thepatentattorneys.com

AT&T LEGAL DEPARTMENT - AT&W **Correspondent Name:**

ONE AT&T WAY Address Line 1: Address Line 2: **ROOM 2A 212**

Address Line 4: BEDMINSTER, NEW JERSEY 07921

ATTORNEY DOCKET NUMBER:	2018-1274CON/ATTWP1185USA
NAME OF SUBMITTER:	BRAXTON K. DAVIS
SIGNATURE:	/Braxton K. Davis/
DATE SIGNED:	11/24/2020

Total Attachments: 12 source=2018-1274 Con Assignment#page1.tif source=2018-1274 Con Assignment#page2.tif source=2018-1274 Con Assignment#page3.tif source=2018-1274 Con Assignment#page4.tif source=2018-1274 Con Assignment#page5.tif source=2018-1274 Con Assignment#page6.tif source=2018-1274 Con Assignment#page7.tif source=2018-1274 Con Assignment#page8.tif source=2018-1274 Con Assignment#page9.tif source=2018-1274 Con Assignment#page10.tif source=2018-1274 Con Assignment#page11.tif source=2018-1274 Con Assignment#page11.tif

Docket No. 2018-1274

ASSIGNMENT

WHEREAS I, Mostafu Tofighbakhsh residing at 7933 Belknap Dr. Cupertino, CA 95814, hereafter referred to as Assignor, am listed as an inventor on a patent application entitled "BEAM PROVISIONING FOR SENSORY DATA COLLECTION FOR 5G OR OTHER NEXT GENERATION NETWORKS," having AT&T Docket No. 2018-1274, the patent application to be filled in the United States Patent & Trademark Office, or which was filed as U.S. Patent Application Serial No. 16/367,648 on March 28, 2019; 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 Assigner, 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

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.

I hereby authorize and request Amin, Turocy & Watson, LLP to insert the filing date and application number of said application when known.

IN TESTIMONY WHE 20 <u>.14</u> .	REOF, I have hereunto set my hand this
	managung.
State of	
County of	
and the second of the second o	, 20, before me a Notary Public in and for the above County, and, and the foregoing assignment as his/her free act and deed for the purpose
Notary Public My Co	mmission Expires

Page 2 of 2

PLEASE SEE NOTARY ATTACHMENT

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is strucked, and not the truthfulness, accuracy, or validity of that document. State of California County of San Mateo On <u>3 / 27/ 2018</u> before me, <u>Sohell Michael Taherian</u>, Netary Public, personally appeared Icstala Tolighbakhsh who proved to me on the basis of satisfactory evidence to be the personia whose namean is/ subscribed to the within instrument and acknowledged to me that he/ in his/ authorized capacity (), and that by his/ signature (on the instrument the personia, or the entity upon behalf of which the personia 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. OHEIL MICHAEL ... COMM. #2265065 NOTARY PUBLIC - CAUFFRINA E FAMIA CLASA COUNTY ... SCHEIL MICHAEL TAHERIAN & WITNESS MY HAND AND OFFICIAL SEAL. SANTA CLARA COUNTY My Comm. Est. Oxt. 25, 3022 Michigan Mariana Signature of Notary Public (Notacy Seab OPTIONAL INFORMATION The acknowledgment contained within this decement is in accordance with California Low. Any conflicts of acknowledgment performed within the State of California shall use the priceding wording paramet is Civil Code section 1189. **An acknowledg**ement cannot be affixed to a document sent by mail or otherwise delivered to a notary public, including electronic means, whereby the signer did not personally appear before the notary public, even if the signer is known by the notary public. In addition, the correct notarial worthing can only be signed and scaled by a notary public. The seal and signature cannot be affixed to a document without the correct notatial wording. DESCRIPTION OF ATTACHED DOCUMENT. CAPACITY CLAIMED BY SIGNER Individual (Title of document) Number of Pages - Including advisoratedgment Partner Amomey-In-Fact Denoment Date

MMXV B WARDALE 20X 200 2000 - www.fishibyNosing.com

Timstee Other:

ASSIGNMENT

WHEREAS I, **Shraboni Jana** residing at **1636 Fountain Springs Circle, Danville, CA 94526**, hereafter referred to as Assignor, am listed as an inventor on a patent application entitled "**BEAM PROVISIONING FOR SENSORY DATA COLLECTION FOR 5G OR OTHER NEXT GENERATION NETWORKS,"** having AT&T Docket No. **2018-1274**, the patent application to be filed in the United States Patent & Trademark Office, or which was filed as U.S. Patent Application Serial No. <u>16/367,648</u> on <u>March 28, 2019</u>; 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

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.

I hereby authorize and request Amin, Turocy & Watson, LLP to insert the filing date and application number of said application when known.

IN TESTIMONY WHER 20 14.	EOF, I have hereunto set my ha	and this 26 day of	MARCH,
	Shradoni Jana		-
State of Callfornia)		
County of <u>contra</u> costa)		
On this 26 day of March and State, personally appeared acknowledged the execution of the herein set forth.	Shraboni	Jana	, and
Notary Public	<u>)</u>		
My Com	mission Expires: OP/	11/2019	
ū	Page 2 of 2	COMM MOTARY PU CONTRA C	EE SONG Z A. # 2119543 BLIC - CALIFORNIA IV COSTA COUNTY O RES AUG. 11, 2019 7

ASSIGNMENT

WHEREAS I, **Bogdan Ungureanu** residing at **2 Prospect Street**, **Holmdel**, **NJ 07733**, hereafter referred to as Assignor, am listed as an inventor on a patent application entitled "**BEAM PROVISIONING FOR SENSORY DATA COLLECTION FOR 5G OR OTHER NEXT GENERATION NETWORKS**," having AT&T Docket No. **2018-1274**, the patent application to be filed in the United States Patent & Trademark Office, or which was filed as U.S. Patent Application Serial No. <u>16/367,648</u> on <u>March 28, 2019</u>; 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

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I hereby authorize and request Amin, Turocy & Watson, LLP to insert the filing date and application number of said application when known.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 26 day of March, 20 14.
Bogdan Ungureanu
State of Monrowth)
County of Monganth)
On this day of March, 20, before me a Notary Public in and for the above County and State, personally appeared Rogdon Magureanu, 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: Jan, 13, 2022

Page 2 of 2

ANGELA N. HARVEY
NOTARY PUBLIC OF NEW JERSEY
ID No: 50052583
My Commission Expires Jan. 13, 2022

ASSIGNMENT

WHEREAS I, Deva-Datta Sharma residing at 521 Kingsbridge Ct., San Ramon, CA 94583, hereafter referred to as Assignor, am listed as an inventor on a patent application entitled "BEAM PROVISIONING FOR SENSORY DATA COLLECTION FOR 5G OR OTHER NEXT GENERATION NETWORKS," having AT&T Docket No. 2018-1274, the patent application to be filed in the United States Patent & Trademark Office, or which was filed as U.S. Patent Application Serial No. 16/367,648 ______on March 28, 2019 ; 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

120

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.

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I hereby authorize and request Amin, Turocy & Watson, LLP to insert the filing date and application number of said application when known.

IN TESTIM	ONY WHEREOF, I have hereunto set my hand this 26 day of Mesch.
20 <u>/</u>	Qualata Sharas
	Deva-Datta Sharma
State of	
County of	
and State personally	
Notary Public	My Commission Expires:
	Page 2 of 2

ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

Signature _____

State of California County of <u>Louton</u>	
	ne and title of the officer)
personally appeared DEVA SHARMA who proved to me on the basis of satisfactory evidence to be to subscribed to the within instrument and acknowledged to me to his/her/their authorized capacity(jes), and that by his/her/their person(s), or the entity upon behalf of which the person(s) act	the person(s) whose name(s) (s) are that he she/they executed the same in signature(s) on the instrument the ed, executed the instrument.
paragraph is true and correct.	orate or comornia mar the relegant
WITNESS my hand and official seal.	MARIA CLOTIL DE SAMPAIO MASON Notary Public - California Contra Costa County Commission # 2263841 My Comm. Expires Oct 22, 2022

PATENT REEL: 054512 FRAME: 0565

Docket No. 2018-1274

ASSIGNMENT

WHEREAS I, Rittwik Jana residing at 1 Peachtree Drive, Montville, NJ 07045, hereafter referred to as Assignor, am listed as an inventor on a patent application entitled "BEAM PROVISIONING FOR SENSORY DATA COLLECTION FOR 5G OR OTHER NEXT GENERATION NETWORKS," having AT&T Docket No. 2018-1274, the patent application to be filed in the United States Patent & Trademark Office, or which was filed as U.S. Patent Application Serial No. 16/367.648 on March 28, 2019; and

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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

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I hereby authorize and request Amin, Turocy & Watson, LLP to insert the filing date and application number of said application when known.

20 <u>19</u> .	nto set my hand this 27 day of <u>March</u> Rithn Jane twik Jana
State of New (exsert) County of Semerse (
County of Scherset	
On this 27 day of March, 2019, before and State, personally appeared in acknowledged the execution of the foregoing assignment as the foregoing assignment of the foregoing assignment.	Aerson and
Notary Public Mc Commission Emission	JENNIFER VERRENGIA NOTARY PUBLIC OF NEW JERSEY Comm. # 50095312 My Commission Expires 12/11/2023
My Commission Expires:	m) Acuminesion Cybrics (7)1/1/2/22

Page 2 of 2

PATENT REEL: 054512 FRAME: 0567

RECORDED: 11/24/2020