# 506592438 04/05/2021

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6639241

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
CRAIG AUER	04/08/2020
WENG-LING HSU	12/08/2020
GUANG-QIN MA	04/09/2020
CLAYTON MOORE	05/11/2020
ROBERT ROBERTSON JR	04/25/2020
KEVIN MCDORMAN	02/19/2021
BRIAN ECONOMAKI	02/24/2021

## **RECEIVING PARTY DATA**

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

## **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16872110

### **CORRESPONDENCE DATA**

**Fax Number:** (732)542-2283

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:** 7325422280

Email: dlane@trbklaw.com

Correspondent Name: AT&T LEGAL DEPARTMENT - TRBK

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

Address Line 4: BEDMINSTER, NEW JERSEY 07921

ATTORNEY DOCKET NUMBER:	2019-0246
NAME OF SUBMITTER:	DIANE V. LANE
SIGNATURE:	/Diane V. Lane/

PATENT 506592438 REEL: 055821 FRAME: 0692

# **DATE SIGNED:** 04/05/2021 **Total Attachments: 14** source=2019-0246-executed Assignments-partial #page1.tif source=2019-0246-executed Assignments-partial #page2.tif source=2019-0246-executed Assignments-partial #page3.tif source=2019-0246-executed Assignments-partial #page4.tif source=2019-0246-executed Assignments-partial #page5.tif source=2019-0246-executed Assignments-partial #page6.tif source=2019-0246-executed Assignments-partial #page7.tif source=2019-0246-executed Assignments-partial #page8.tif source=2019-0246-executed Assignments-partial #page9.tif source=2019-0246-executed Assignments-partial #page10.tif source=2019-0246-executed Assignments-partial #page11.tif source=2019-0246-executed Assignments-partial #page12.tif source=2019-0246-executed Assignments-partial #page13.tif source=2019-0246-executed Assignments-partial #page14.tif

WHEREAS I, Craig Auer residing in Webster Groves, Missouri hereafter referred to as Assignor, am listed as an inventor on a patent application entitled "TELECOMMUNICATION NETWORK SUBSCRIBER CONVERSION USING CLUSTER-BASED DISTANCE MEASURES" having AT&T Docket No. 2019-0246, 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 754 Peachtree Street, Suite 7C, Atlanta, Georgia, 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

REEL: 055821 FRAME: 0694

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 <u></u> day of
<u></u>	profession J. C. Markett	
	Craig Auer	
State of MSSAL is)		
County of Shladis		
(X) (A)		
On this $\underline{\mathbb{S}}$ day of $\underline{Apn  \mathbb{I}}$	, 2020, before me a	Notary Public in and for the
above County and State, personally ag	ppeared <b>Craig Auer</b> , a	ind acknowledged the
execution of the foregoing assignment	as his/her free act an	d deed for the purpose
herein set forth.		
Sua He Eullus		as he la call
Notary Public My (	Commission Expires:	

SAMANTHA J FAULKNER
Notary Public - Notary Seal
Jefferson County - State of Missouri
Commission Number 16353317
My Commission Expires Jan 13, 2024

WHEREAS I, Weng-Ling Hsu residing in Webster Groves, Missouri hereafter referred to as Assignor, am listed as an inventor on a patent application entitled "TELECOMMUNICATION NETWORK SUBSCRIBER CONVERSION USING CLUSTER-BASED DISTANCE MEASURES" having AT&T Docket No. 2019-0246, the patent application filed in the United States Patent & Trademark Office on May 11, 2020 and assigned U.S. Patent Application Serial No. 16/872,110 (I/we hereby authorize and request Assignee (defined below) or any agent or attorney of Assignee to insert the filing date and application number above when known, and any further identification information, if required); and

WHEREAS, AT&T Intellectual Property I, L.P., a partnership organized and existing under the laws of Nevada and having an address at 754 Peachtree Street, Suite 7C, Atlanta, Georgia, 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.

44	REOF, I have hereunto set my hand this <u>8th</u> day of
<u>December</u> , 2020.	Wer Liller
	Weng-Ling Hsu
State of New Jersey	
County of Somerset	
On this day of	, 2020, before me a Notary Public in and for the
- 1. 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	personally appeared <b>Weng-Ling Hsu</b> , and acknowledged the
herein set forth.	ng assignment as his/her free act and deed for the purpose
Notary Public	My Commission Expires:

WHEREAS I, Guang-Qin Ma residing in Kendall Park, New Jersey hereafter referred to as Assignor, am listed as an inventor on a patent application entitled "TELECOMMUNICATION NETWORK SUBSCRIBER CONVERSION USING CLUSTER-BASED DISTANCE MEASURES" having AT&T Docket No. 2019-0246, 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 754 Peachtree Street, Suite 7C, Atlanta, Georgia, 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.

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IN TESTIMONY WHEREOF, I	have hereunto set my hand this $2$ day of
April 2020.	The state of the s
1. S.	11011
ar . Cak	Guang-Qin Ma
State of NON Jerney	
County of Mile EX	
on this 9 day of AAA	, 2020, before me a Notary Public in and for the
700 TO 100 TO 10	ally appeared Guang-Qin Ma, and acknowledged the
	nment as his/her free act and deed for the purpose
herein set forth.	
Lung. Edia	N. o o ol
Notary Public /	My Commission Expires: <u> </u>
Reference of the second of the	
LAURIE S SELIGER T	
Cammission #50118064 Otary Public, State of New Jersey My Commission Explose	

3

December 18, 2024

WHEREAS I, Clayton Moore residing in Dallas, Texas hereafter referred to as Assignor, am listed as an inventor on a patent application entitled "TELECOMMUNICATION NETWORK SUBSCRIBER CONVERSION USING CLUSTER-BASED DISTANCE MEASURES" having AT&T Docket No. 2019-0246, 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 754 Peachtree Street, Suite 7C, Atlanta, Georgia, 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

chartegal proceeding, our all switch papers when called upon to do so, execute and this received of particular the title to this this such as the papers of assigns, execute all divisional continuation and parently to everything possible to the papers of assigns and perently to everything possible to the superflow of the invention in the superflow of the invention in the superflow of the superfl

AND THE FIELD CONSISTENCE COPY of this assignment shall be deemed a full of any country in professional state of any document which may be required in any country in professional AT&T Intellectual Property I. L.P. to apply for patent or other form of the country and to claim the aforesaid benefit of the notificity profit.

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NITESTIMONY WHEREOF, I have here:	into set my hand this $\frac{1}{2} \frac{1}{2} \cos \phi$
	ayton Moore
	OZO before the a Notary Public in and for the red Clayton Moore, and acknowledged the surpose
Notary Public My Comi	nission Expires

X

WHEREAS I, Robert Robertson, Jr. residing in Southlake, Texas hereafter referred to as Assignor, am listed as an inventor on a patent application entitled "TELECOMMUNICATION NETWORK SUBSCRIBER CONVERSION USING CLUSTER-BASED DISTANCE MEASURES" having AT&T Docket No. 2019-0246, 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 754 Peachtree Street, Suite 7C, Atlanta, Georgia, 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 caths 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 <u>25</u> day of <u>April</u> , 2020.	
Robert Robertson, Jr.	
State of <u>Texas</u>	
County of Tallast — David Peterson  County of Tallast — David Peterson  Count Styles (2-1)  Riday in 128840354	
On this 街 day of <u>April</u> , 2020, before me a Notary Public in and f	or the
above County and State, personally appeared Robert Robertson, Jr., and	
acknowledged the execution of the foregoing assignment as his/her free act and de	ed fo
the purpose herein set forth.	
Notary Public My Commission Expires: X/9/2?	

WHEREAS I, Kevin McDorman residing in Dallas, Texas hereafter referred to as Assignor, am listed as an inventor on a patent application entitled "TELECOMMUNICATION NETWORK SUBSCRIBER CONVERSION USING CLUSTER-BASED DISTANCE MEASURES having AT&T Docket No. 2019-0246, the patent application filed in the United States Patent & Trademark Office on May 11, 2020, and assigned U.S. Serial No. 16/872, 110; and

WHEREAS, AT&T Intellectual Property I, L.P., a partnership organized and existing under the laws of Nevada and having an address at 754 Peachtree Street, Suite 7C, Arianta, Georgia, 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 Petent which may be granted thereon, including any and all renewals, releases 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 jaway 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 patient application identified above, assist in the making and prosecution of any other patient 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.

**PATENT** 

REEL: 055821 FRAME: 0704

so executed and delivered shall shall constitute one and the sar any form of an electronic copy of shall be deemed to be an origin	
IN TESTIMONY WHEREOF,	I have hereunto set my hand this day of
State of <u>TeXas</u> County of <u>Dallas</u>	)
above County and State, person	, 2021, before me a Notary Public in and for the nally appeared <b>Kevin McDorman</b> , and acknowledged issignment as his/her free act and deed for the purpose
Notary Public	My Commission Expires:

WHEREAS I, **Brian Economaki** residing in **Richardson, Texas** hereafter referred to as Assignor, am listed as an inventor on a patent application entitled "TELECOMMUNICATION NETWORK SUBSCRIBER CONVERSION USING CLUSTER-BASED DISTANCE MEASURES" having AT&T Docket No. 2019-0246, the patent application filed in the United States Patent & Trademark Office on May 11, 2020, and assigned U.S. Serial No. 16/872,110; and

WHEREAS, AT&T intellectual Property I, L.P., a partnership organized and existing under the laws of **Nevada** and having an address at **754 Peachtree Street**, Suite 7C, Atlanta, Georgia, 30306 (hereinafter referred to as Assignce), 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. It as Assignor, have sold, assigned, transferred, and set over, and do hereby self, 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 profection, design patent profection, 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, LHEREBY 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 lewful 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

**PATENT** 

REEL: 055821 FRAME: 0706

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 <u>Z4</u> day of FEXE 44-1, 2021.

	Brian Economi	Brian Economski		
State of <u>TEXAS</u> County of <u>DALLAS</u>		<b></b>		
above County and State, p		ne a Notary Public in and for the nomaki, and acknowledged act and deed for the purpose		
Notary Public	My Commission Expir	(4)		

PATENT REEL: 055821 FRAME: 0707

RECORDED: 04/05/2021