

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT6382339

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| MUKUNDAN SARUKKAI | 06/12/2020 |
| ESHRAT HUDA | 10/27/2020 |
| PEI-EN PAMELA HSU | 10/31/2020 |
| RECEIVING PARTY DATA | |
| Name: | AT&T INTELLECTUAL PROPERTY I, L.P. |
| Street Address: | 754 PEACHTREE STREET |
| City: | ATLANTA |
| State/Country: | GEORGIA |
| Postal Code: | 30308 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 16903544 |
| CORRESPONDENCE DATA | |
| Fax Number: | (215)568-3439 |
| <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: | 2155683100 |
| Email: | assignments@bakerlaw.com |
| Correspondent Name: | BAKER HOSTETLER LLP |
| Address Line 1: | 2929 ARCH STREET |
| Address Line 2: | CIRA CENTER, 12TH FLOOR |
| Address Line 4: | PHILADELPHIA, PENNSYLVANIA 19104 |
| ATTORNEY DOCKET NUMBER: | 2020-0003/101900.002332 |
| NAME OF SUBMITTER: | MARYANN DEVINE |
| SIGNATURE: | /MARYANN DEVINE/ |
| DATE SIGNED: | 11/03/2020 |
| Total Attachments: 6 | |
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ASSIGNMENT

WHEREAS I/we, **Mukundan Sarukkai**, residing at **62 Sunningdale Circle, Manalapan, New Jersey 07726** hereafter referred to as Assignor, am listed as an inventor on a patent application entitled "**INTERACTIVE AND DYNAMIC MAPPING ENGINE (IDME)**," having AT&T Docket No. **2020-0003/101900.002332**, the patent application filed in the United States Patent & Trademark Office on _____ and assigned U.S. Patent Application Serial no. _____, (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/we, 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/we 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;

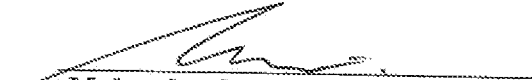
AND, I/we HEREBY covenant that I/we have the full right to convey the interest assigned by this Assignment, and I/we have not executed and will not execute any assignment, sale, license, agreement, or encumbrance in conflict with this Assignment;

AND, I/we HEREBY further covenant and agree, for the Assignor and the Assignor's legal representatives, that I/we 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/we 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/we have hereunto set my hand this 12 day of June, 2020.


Mukundan Sarukkai

State of NEW JERSEY)

County of MONMOUTH)

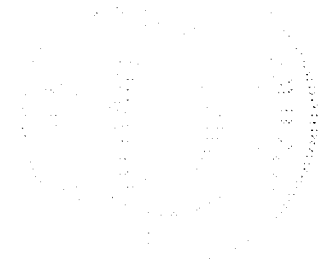
On this ___ day of _____, 2020, before me a Notary Public in and for the above County and State, personally appeared **Mukundan Sarukkai**, and acknowledged the execution of the foregoing assignment as his/her free act and deed for the purpose herein set forth.


Notary Public

My Commission Expires: 07/07/2021

ANITHA S. MUKUNDAN
NOTARY PUBLIC OF NEW JERSEY
Comm. # 50045407
My Commission Expires 8/7/2021

Page 2 of 2



Sworn to and subscribed
before me this
12 day of June, 2020

ASSIGNMENT

WHEREAS I/we, **Eshrat Huda**, residing at **57 Wesley Road, Hillsborough, New Jersey 08844** hereafter referred to as Assignor, am listed as an inventor on a patent application entitled "**INTERACTIVE AND DYNAMIC MAPPING ENGINE (IDME)**," having AT&T Docket No. **2020-0003/101900.002332**, the patent application filed in the United States Patent & Trademark Office on _____ and assigned U.S. Patent Application Serial no. _____, (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/we, 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/we 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;

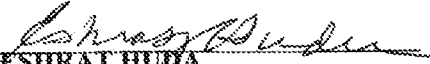
AND, I/we HEREBY covenant that I/we have the full right to convey the interest assigned by this Assignment, and I/we have not executed and will not execute any assignment, sale, license, agreement, or encumbrance in conflict with this Assignment;

AND, I/we HEREBY further covenant and agree, for the Assignor and the Assignor's legal representatives, that I/we 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/we 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.

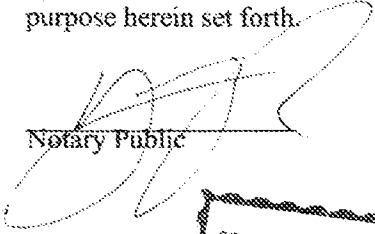
IN TESTIMONY WHEREOF, I/we have hereunto set my hand this 27 day of OCTOBER, 2020.


ESH RAT HUDA

State of New Jersey)

County of Somerset)

On this 27th day of October, 2020, before me a Notary Public in and for the above County and State, personally appeared **Eshrat Huda**, 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: 6-26-23.

ANTONIO POACHES JR.
Notary Public - State of New Jersey
My Commission Expires Jun 26, 2023

ANTONIO POACHES JR.
Notary Public - State of New Jersey
My Commission Expires Jun 26, 2023
Page 2 of 2

ASSIGNMENT

WHEREAS I/we, **Pei-En Pamela Hsu**, residing at **4 Magnum Court, Berkeley Heights, New Jersey 07922** hereafter referred to as Assignor, am listed as an inventor on a patent application entitled "**INTERACTIVE AND DYNAMIC MAPPING ENGINE (IDME)**," having AT&T Docket No. **2020-0003/101900.002332**, the patent application filed in the United States Patent & Trademark Office on _____ and assigned U.S. Patent Application Serial no. _____, (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/we, 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/we 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;

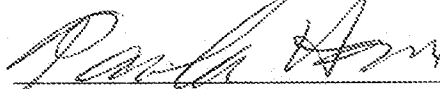
AND, I/we HEREBY covenant that I/we have the full right to convey the interest assigned by this Assignment, and I/we have not executed and will not execute any assignment, sale, license, agreement, or encumbrance in conflict with this Assignment;

AND, I/we HEREBY further covenant and agree, for the Assignor and the Assignor's legal representatives, that I/we 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.

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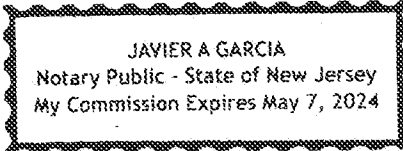
IN TESTIMONY WHEREOF, I/we have hereunto set my hand this 31 day of October, 2020.



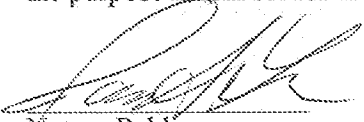
PEI-EN PAMELA HSU

State of NJ)

County of MORRIS)



On this 31st day of October, 2020, before me a Notary Public in and for the above County and State, personally appeared Pei-En Pamela Hsu, 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: May 7, 2024