

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5363426

<b>SUBMISSION TYPE:</b>	CORRECTIVE ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	Corrective Assignment to correct the SERIAL NUMBER 62/291,393 TO 62/291,363 AND TO CORRECT ZIP CODE OF APPLICANT ADDRESS previously recorded on Reel 043496 Frame 0968. Assignor(s) hereby confirms the ASSIGNMENT.

**CONVEYING PARTY DATA**

Name	Execution Date
SAMUEL A. MILLER	08/31/2017
BRIAN SCHMIDT	03/21/2017
ANASTASIA ANDREYEVNA TAJIK	03/30/2017
GEORGE ALISTAIR SANGER	03/24/2017

**RECEIVING PARTY DATA**

<b>Name:</b>	MAGIC LEAP, INC.
<b>Street Address:</b>	7500 W. SUNRISE BLVD.
<b>City:</b>	PLANTATION
<b>State/Country:</b>	FLORIDA
<b>Postal Code:</b>	33322

**PROPERTY NUMBERS Total: 3**

Property Type	Number
<b>Application Number:</b>	15423415
<b>PCT Number:</b>	US2017016263
<b>Application Number:</b>	62291363

**CORRESPONDENCE DATA**

**Fax Number:** (408)877-1662  
*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:** (408)777-2902  
**Email:** nnr@viplawgroup.com  
**Correspondent Name:** VISTA IP LAW GROUP, LLP - N RUSHTON  
**Address Line 1:** 2160 LUNDY AVE., STE 230  
**Address Line 4:** SAN JOSE, CALIFORNIA 95131

<b>ATTORNEY DOCKET NUMBER:</b>	ML.20043.00/ML-0294US
<b>NAME OF SUBMITTER:</b>	NANCY RUSHTON
<b>SIGNATURE:</b>	/Nancy Rushton/

**DATE SIGNED:**

02/06/2019

**Total Attachments: 9**

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source=Notice#page2.tif

**ASSIGNMENT**

62/291,363  
 6/24/17  
 WHEREAS, GEORGE ALISTAIR SANGER, residing at Coronado, California, SAMUEL A. MILLER, residing at Hollywood, Florida, BRIAN SCHMIDT, residing at Bellevue, Washington, and ANASTASIA ANDREYEVNA TAJIK, residing at Fort Lauderdale, Florida (hereinafter "ASSIGNORS") have invented certain new and useful improvements, technology, inventions, developments, ideas, ornamental design or discoveries related to **TECHNIQUE FOR DIRECTING AUDIO IN AUGMENTED REALITY SYSTEM** (collectively hereinafter referred to as the "Work") for which U.S. Provisional Application No. ~~62/291,393~~ was prepared and filed on **February 4, 2016**, and U.S. Utility Application No. **15/423,415** and PCT Application No. **PCT/US2017/016263** were filed on **February 2, 2017** with the United States Patent and Trademark Office (hereinafter the "Applications");

AND WHEREAS, Magic Leap, Inc., a Delaware Corporation, having an address at 7500 W. Sunrise Blvd., Plantation, FL 33312 (hereinafter the "ASSIGNEE"), desires to acquire the entire right, title, and interest in and to the Applications and the Work:

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby acknowledges that ASSIGNOR has sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title, and interest throughout the world in the Applications and the Work, including all provisional applications relating thereto (including but not limited to U.S. Provisional Application No(s). ~~62/291,393~~, filed **February 4, 2016**, U.S. Utility Application No. **15/423,415** and PCT Application No. **PCT/US2017/016263** filed on **February 2, 2017**, and all nonprovisional applications claiming priority thereto, including, all divisions, continuations, continuations-in-part, reissues, and reexaminations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof; and all rights of priority under International Conventions and any related Letters Patent which may hereafter be granted or filed in any country or countries foreign to the United States, all extensions, renewals and reissues thereof; and ASSIGNOR hereby authorizes and requests the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all related Letters Patent to the ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND ASSIGNOR DOES HEREBY sell, assign, transfer, and convey to ASSIGNEE, its successors, legal representatives, and assigns all claims for damages and all remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of assignment to ASSIGNEE, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of said Letters Patent before or after issuance.

AND ASSIGNOR DOES HEREBY covenant and agree that ASSIGNOR will communicate to said ASSIGNEE, its successors, legal representatives and assigns, any facts known to ASSIGNOR respecting the Work, and testify in any legal proceeding, assist in the preparation of any other *provisional or non-provisional applications relating to the Application and the Work or any improvements made thereto*, sign all lawful papers, authorize the filing of and execute and make all rightful oaths and/or declarations in connection with the Application and the Work including any improvements made thereto, any patent applications filed therefrom, and any continuing application filed from any of the aforementioned applications, and generally do everything possible to aid the ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for the Work in all countries. If ASSIGNOR is requested by the owner of the rights conveyed hereby to take action under this paragraph the owner shall reimburse ASSIGNOR for reasonable out-of-pocket expenses actually paid by ASSIGNOR and incurred and paid as a result of

**ASSIGNMENT**

WHEREAS, GEORGE ALISTAIR SANGER, residing at Coronado, California, SAMUEL A. MILLER, residing at Hollywood, Florida, BRIAN SCHMIDT, residing at Bellevue, Washington, and ANASTASIA ANDREYEVNA TAJIK, residing at Fort Lauderdale, Florida (hereinafter "ASSIGNORS") have invented certain new and useful improvements, technology, inventions, developments, ideas, ornamental design or discoveries related to **TECHNIQUE FOR DIRECTING AUDIO IN AUGMENTED REALITY SYSTEM** (collectively hereinafter referred to as the "Work") for which U.S. Provisional Application No. ~~62/291,393~~ was prepared and filed on **February 4, 2016**, and U.S. Utility Application No. **15/423,415** and PCT Application No. **PCT/US2017/016263** were filed on **February 2, 2017** with the United States Patent and Trademark Office (hereinafter the "Applications");

AND WHEREAS, Magic Leap, Inc., a Delaware Corporation, having an address at 7500 W. Sunrise Blvd., Plantation, FL 33318 (hereinafter the "ASSIGNEE"), desires to acquire the entire right, title, and interest in and to the Applications and the Work;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby acknowledges that ASSIGNOR has sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title, and interest throughout the world in the Applications and the Work, including all provisional applications relating thereto (including but not limited to U.S. Provisional Application No(s). ~~62/291,393~~, filed **February 4, 2016**, U.S. Utility Application No. **15/423,415** and PCT Application No. **PCT/US2017/016263** filed on **February 2, 2017**, and all nonprovisional applications claiming priority thereto, including, all divisions, continuations, continuations-in-part, reissues, and reexaminations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and any related Letters Patent which may hereafter be granted or filed in any country or countries foreign to the United States, all extensions, renewals and reissues thereof; and ASSIGNOR hereby authorizes and requests the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all related Letters Patent to the ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

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AND ASSIGNOR DOES HEREBY covenant and agree that ASSIGNOR will communicate to said ASSIGNEE, its successors, legal representatives and assigns, any facts known to ASSIGNOR respecting the Work, and testify in any legal proceeding, assist in the preparation of any other provisional or non-provisional applications relating to the Application and the Work or any improvements made thereto, sign all lawful papers, authorize the filing of and execute and make all rightful oaths and/or declarations in connection with the Application and the Work including any improvements made thereto, any patent applications filed therefrom, and any continuing application filed from any of the aforementioned applications, and generally do everything possible to aid the ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for the Work in all countries. If ASSIGNOR is requested by the owner of the rights conveyed hereby to take action under this paragraph the owner shall reimburse ASSIGNOR for reasonable out-of-pocket expenses actually paid by ASSIGNOR and incurred and paid as a result of

**ASSIGNMENT**

*62/291,363*  
WHEREAS, GEORGE ALISTAIR SANGER, residing at Coronado, California, SAMUEL A. MILLER, residing at Hollywood, Florida, BRIAN SCHMIDT, residing at Bellevue, Washington, and ANASTASIA ANDREYEVNA TAJIK, residing at Fort Lauderdale, Florida (hereinafter "ASSIGNORS") have invented certain new and useful improvements, technology, inventions, developments, ideas, ornamental design or discoveries related to **TECHNIQUE FOR DIRECTING AUDIO IN AUGMENTED REALITY SYSTEM** (collectively hereinafter referred to as the "Work") for which U.S. Provisional Application No. **62/291,393** was prepared and filed on **February 4, 2016**, and U.S. Utility Application No. **15/423,415** and PCT Application No. **PCT/US2017/016263** were filed on **February 2, 2017** with the United States Patent and Trademark Office (hereinafter the "Applications");

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*62/291,363*  
*AS 7/27*

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**PATENT**

**REEL: 048278 FRAME: 0513**

complying with the owner's request; provided that receipts showing the amount actually paid are submitted to such owner.

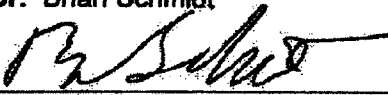
**Legal Name of inventor: George Alistair Sanger**

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**Legal Name of inventor: Samuel A. Miller**

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**Legal Name of inventor: Brian Schmidt**

Signature:  Date: 3/21/17

**Legal Name of inventor: Anastasia Andreyevna Tajik**

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

The Assignee hereby acknowledges and accepts the foregoing assignment.

Assignee: MAGIC LEAP, INC.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Name: David Lundmark

Title: Chief Patent Counsel

complying with the owner's request; provided that receipts showing the amount actually paid are submitted to such owner.

**Legal Name of inventor:** George Alistair Sanger

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**Legal Name of inventor:** Samuel A. Miller

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**Legal Name of inventor:** Brian Schmidt

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**Legal Name of inventor:** Anastasia Andreyevna Tajik

Signature:  Date: MAR 30 2017

The Assignee hereby acknowledges and accepts the foregoing assignment.

Assignee: MAGIC LEAP, INC.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Name: David Lundmark

Title: Chief Patent Counsel

complying with the owner's request; provided that receipts showing the amount actually paid are submitted to such owner.

Legal Name of inventor: George Alistair Sanger

Signature: 

Date: 3/24/17

Legal Name of inventor: Samuel A. Miller

Signature: 

Date: 8/31/17

Legal Name of inventor: Brian Schmidt

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Legal Name of inventor: Anastasia Andreyevna Tajik

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

The Assignee hereby acknowledges and accepts the foregoing assignment.

Assignee: MAGIC LEAP, INC.

Signature: 

Date: 9-1-17

Name: David Lundmark

Title: Chief Patent Counsel



## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4580954

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
GEORGE ALISTAIR SANGER	03/24/2017
SAMUEL A MILLER	08/31/2017
BRIAN SCHMIDT	03/21/2017
ANASTASIA ANDREYEVNA TAJIK	03/30/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	MAGIC LEAP, INC.
<b>Street Address:</b>	7500 W. SUNRISE BLVD.
<b>City:</b>	PLANTATION
<b>State/Country:</b>	FLORIDA
<b>Postal Code:</b>	33313
<b>PROPERTY NUMBERS Total: 3</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	62291393
<b>Application Number:</b>	15423415
<b>PCT Number:</b>	US2017016263
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(408)877-1662
<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>	
<b>Phone:</b>	4087772902
<b>Email:</b>	sp@viplawgroup.com
<b>Correspondent Name:</b>	VISTA IP LAW GROUP
<b>Address Line 1:</b>	21760 STEVENS CREEK BLVD, SUITE 100
<b>Address Line 4:</b>	CUPERTINO, CALIFORNIA 95014
<b>ATTORNEY DOCKET NUMBER:</b>	ML.20043.00
<b>NAME OF SUBMITTER:</b>	SHASHI PATEL
<b>SIGNATURE:</b>	/Shashi Patel/
<b>DATE SIGNED:</b>	09/06/2017
<b>Total Attachments: 4</b>	



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

SEPTEMBER 7, 2017

PTAS

VISTA IP LAW GROUP  
21760 STEVENS CREEK BLVD, SUITE 100  
CUPERTINO, CA 95014

**504534247**

### UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT RECORDATION BRANCH OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE ASSIGNMENT RECORDATION BRANCH AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT RECORDATION BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 09/06/2017

REEL/FRAME: 043496/0968  
NUMBER OF PAGES: 6

BRIEF: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: ML.20043.00

ASSIGNOR:

SANGER, GEORGE ALISTAIR

DOC DATE: 03/24/2017

ASSIGNOR:

MILLER, SAMUEL A

DOC DATE: 08/31/2017

ASSIGNOR:

SCHMIDT, BRIAN

DOC DATE: 03/21/2017

ASSIGNOR:

TAJIK, ANASTASIA ANDREYEVNA

DOC DATE: 03/30/2017

ASSIGNEE:

MAGIC LEAP, INC.  
7500 W. SUNRISE BLVD.  
PLANTATION, FLORIDA 33313

APPLICATION NUMBER: 15423415

FILING DATE: 02/02/2017

PATENT NUMBER:

ISSUE DATE:

TITLE: TECHNIQUE FOR DIRECTING AUDIO IN AUGMENTED REALITY SYSTEM

APPLICATION NUMBER: 62291393 FILING DATE: 02/04/2016  
PATENT NUMBER: ISSUE DATE:  
TITLE: METHODS AND SYSTEMS FOR A RANGING PROTOCOL

APPLICATION NUMBER: FILING DATE: 02/02/2017  
PATENT NUMBER: ISSUE DATE:  
PCT NUMBER: US2017016263  
TITLE: TECHNIQUE FOR DIRECTING AUDIO IN AUGMENTED REALITY SYSTEM

ASSIGNMENT RECORDATION BRANCH  
PUBLIC RECORDS DIVISION