PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6659758

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|-------------------|
| NATURE OF CONVEYANCE: | SECURITY INTEREST |

CONVEYING PARTY DATA

| Name | Execution Date |
|-------------|----------------|
| SMULE, INC. | 04/14/2021 |

RECEIVING PARTY DATA

| Name: | WESTERN ALLIANCE BANK |
|-----------------|---------------------------------|
| Street Address: | 55 ALMADEN BOULEVARD, SUITE 100 |
| City: | SAN JOSE |
| State/Country: | CALIFORNIA |
| Postal Code: | 95113 |

PROPERTY NUMBERS Total: 16

| Property Type | Number |
|---------------------|--------------|
| Application Number: | 16898891 |
| Application Number: | 17249169 |
| Application Number: | 17249113 |
| Application Number: | 16834775 |
| Application Number: | 17222752 |
| Application Number: | 14928727 |
| Application Number: | 16814132 |
| Application Number: | 16947943 |
| Application Number: | 62837082 |
| Application Number: | 16509688 |
| Application Number: | 16939679 |
| Application Number: | 17221517 |
| Application Number: | 17181791 |
| PCT Number: | US2020047768 |
| PCT Number: | US2020041589 |
| PCT Number: | US2021019246 |

CORRESPONDENCE DATA

Fax Number:

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.

506612951 REEL: 055937 FRAME: 0207

PATENT

Phone: 650-843-5801
Email: jgu@cooley.com
Correspondent Name: JENNIFER GU

Address Line 1: 3175 HANOVER STREET

Address Line 4: PALO ALTO, CALIFORNIA 94304

| ATTORNEY DOCKET NUMBER: | 305983-1172 |
|-------------------------|---------------|
| NAME OF SUBMITTER: | JENNIFER GU |
| SIGNATURE: | /Jennifer Gu/ |
| DATE SIGNED: | 04/15/2021 |

Total Attachments: 15

source=WAB - Smule - First Amendment to IPSA (updated Exhibit C) (4.14.2021)#page1.tif source=WAB - Smule - First Amendment to IPSA (updated Exhibit C) (4.14.2021)#page2.tif source=WAB - Smule - First Amendment to IPSA (updated Exhibit C) (4.14.2021)#page3.tif source=WAB - Smule - First Amendment to IPSA (updated Exhibit C) (4.14.2021)#page4.tif source=WAB - Smule - First Amendment to IPSA (updated Exhibit C) (4.14.2021)#page5.tif source=WAB - Smule - First Amendment to IPSA (updated Exhibit C) (4.14.2021)#page6.tif source=WAB - Smule - First Amendment to IPSA (updated Exhibit C) (4.14.2021)#page7.tif source=WAB - Smule - First Amendment to IPSA (updated Exhibit C) (4.14.2021)#page8.tif source=WAB - Smule - First Amendment to IPSA (updated Exhibit C) (4.14.2021)#page10.tif source=WAB - Smule - First Amendment to IPSA (updated Exhibit C) (4.14.2021)#page10.tif source=WAB - Smule - First Amendment to IPSA (updated Exhibit C) (4.14.2021)#page11.tif source=WAB - Smule - First Amendment to IPSA (updated Exhibit C) (4.14.2021)#page12.tif source=WAB - Smule - First Amendment to IPSA (updated Exhibit C) (4.14.2021)#page13.tif source=WAB - Smule - First Amendment to IPSA (updated Exhibit C) (4.14.2021)#page13.tif source=WAB - Smule - First Amendment to IPSA (updated Exhibit C) (4.14.2021)#page13.tif source=WAB - Smule - First Amendment to IPSA (updated Exhibit C) (4.14.2021)#page13.tif source=WAB - Smule - First Amendment to IPSA (updated Exhibit C) (4.14.2021)#page13.tif source=WAB - Smule - First Amendment to IPSA (updated Exhibit C) (4.14.2021)#page15.tif

FIRST AMENDMENT TO INTELLECTUAL PROPERTY SECURITY AGREEMENT

This First Amendment to Intellectual Property Security Agreement is entered into as of April 14, 2021 (the "Amendment") by and among WESTERN ALLIANCE BANK, an Arizona corporation ("Lender"), SMULE, INC., a Delaware corporation ("Grantor").

RECITALS

Grantor and Lender are parties to that certain Intellectual Property Security Agreement dated as of February 21, 2020, as amended from time to time (the "IPSA"). The parties are entering into a Seventh Amendment to Loan and Security Agreement dated as of even date hereof (the "Seventh Amendment"). In connection with the Seventh Amendment, the parties desire to amend the IPSA in accordance with the terms of this Amendment.

NOW, THEREFORE, the parties agree as follows:

- 1. Exhibit C (Patents) to the IPSA is hereby replaced in its entirety with that attached hereto as Exhibit C.
- Unless otherwise defined, all initially capitalized terms in this Amendment shall be as defined in the IPSA. The IPSA, as amended hereby, shall be and remain in full force and effect in accordance with its respective terms and hereby is ratified and confirmed in all respects. Except as expressly set forth herein, the execution, delivery, and performance of this Amendment shall not operate as a waiver of, or as an amendment of, any right, power, or remedy of Lender under the IPSA, as in effect prior to the date hereof. Grantor ratifies and reaffirms the continuing effectiveness of all agreements entered into in connection with the IPSA.
- This Amendment may be executed in two or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one instrument.

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248388489 v1

IN WITNESS WHEREOF, the undersigned have executed this Amendment as of the first date above written.

GRANTOR:

Address of Grantor:

SMULE, INC.

139 Townsend Street, Suite 300 San Francisco, CA 94107 By: Name: Title:

By: Interpolation |
Name: Joseph Le Chellelliei |
Title: CAO

LENDER:

Address of Lender:

WESTERN ALLIANCE RANK

55 Almaden Boulevard, Suite 100 San Jose, CA 95113 248388488 vt

IN WITNESS WHEREOF, the undersigned have executed this Amendment as of the first date above written.

| Address of Grantor: | SMULE, INC. |
|---------------------------------|-----------------------|
| 139 Townsend Street, Suite 300 | Ву:// |
| San Francisco, CA 94107 | Name: Teltry Snih |
| | Title: (Eu |
| | |
| | By: |
| | Name: |
| | Title: |
| | |
| | |
| | |
| | LENDER: |
| Address of Lender: | WESTERN ALLIANCE BANK |
| | |
| 55 Almaden Boulevard, Suite 100 | By: |
| San Jose, CA 95113 | Name: |
| | Title: |
| | |

IN WITNESS WHEREOF, the undersigned have executed this Amendment as of the first date above written.

| | GRANTOR: | |
|---------------------------------|---------------------------------------|---|
| Address of Grantor: | SMULE, INC. | |
| 39 Townsend Street, Suite 300 | By: | |
| San Francisco, CA 94107 | Name: | |
| | Title: | _ |
| | | |
| | By: | |
| | Name: | |
| | Title: | |
| | | |
| | LENDER: | |
| Address of Lender: | WESTERN ALLIANCE BANK | |
| | DocuSigned by: | |
| 55 Almaden Boulevard, Suite 100 | By: Riesa Nunes Name: Riesa Nunes | _ |
| San Jose, CA 95113 | Name: Riesa Nunes | _ |
| | Title: Loan Operations Group Director | |

EXHIBIT C

PATENTS

Please see attached Schedule

248388489 v1

| Reference # Prior | Reference # | СТҮ | Title | Туре | Inventor Names Combined | Serial # | Filed Date | Priority Date | Patent # | Issue Date | Expiration Date | Status | Next Due (Current) |
|---|-------------|------|--|------|---|-------------|-------------|---------------|------------|------------|--------------------|----------|---------------------------------|
| 50342.00001 140-0 | 001 US | | System And Method For Communication Between Mobile Devices Using | UTL | Cook, Perry R | 12/553788 | 9/3/2009 | 9/3/2008 | 8750473 | 6/10/2014 | 6/26/2032 | ISSUED | 12/10/2021 1ST MAINT FEE DUE |
| | | | Digital/Acquetic Techniques | | | | | | | | | | |
| 50342.00001US02 50342 | .00077 | | System And Method For Communication Between Mobile Devices Using | UTL | Gook, Perry R. | 14/295106 | 6/3/2014 | 9/3/2008 | 9083451 | 7/14/2015 | 9/3/2029 | ISSUED | 1/14/2023 1ST MAINT FEE DUE |
| | 00007410000 | | Digital/Acoustic Techniques | 112 | | -1-770000 | 0.0000000 | 2/0/020 | AFARARA | 0/// 00/2 | 0.0.00000 | ioniien | ********** |
| 50342.00001US03 50342 | ,00077US03 | | System And Method For Communication Between Mobile Devices Using | UTL | Gook, Perry R. | 14/752283 | 6/26/2015 | 9/3/2008 | 9596036 | 3/14/2017 | 9/3/2029 | ISSUED | 09/14/2024 1ST MAINT FEE DUE |
| 50342:00001US04: 50342 | .00077US04 | | Digital/Accustic Techniques System And Method For | UTL | Godk, Perry R | 15/457292 | 3/13/2017 | 9/3/2008 | 10103820 | 10/16/2018 | 9/3/2029 | ISSUED | 4/16/2022 1ST |
| 30342 908010304 30342 | :00011G304 | | Communication Between Mobile Devices Using | U.L. | GOGE, FELLY N. | 1014.012.92 | OF1.012U11 | 9332000 | HUHUODED. | 10/16/2010 | 1973/2029 | ISSUED | MAINT FEE DUE |
| 50342.00012 140-0 | 007-US I | US | Digital/Acquistic Techniques System And Method For | UTL | Salazar, Spencer | 12/612500 | 11/4/2009 | 11/4/2009 | 8222507 | 7/17/2012 | 7/11/2030 | ISSUED | 01/17/2024 3RD |
| 333 12.333 12 | | | Capture And Rendering Of Performance On Synthetic Musical Instrument | | Wang, Ge Cook, Perry R. | | | | | | | | MAINT FEE DUE |
| 50342.00013 140-00 | 007-1US | us | System And Method For Capture And Rendering Of Performance On Synthetic | | Salazar, Spencer Wang, Ge Cook, Perry R. | 13/532321 | 6/25/2012 | 11/4/2009 | 8686276 | 4/1/2014 | 11/4/2029 | ISSUED | 10/01/2021 2ND MAINT FEE DUE |
| 50342.00034 140-0 | 008-US 0 | us | Musical Instrument Continuous Pitch | UTL: | Gook, Perry R | 12/876131 | 9/4/2010 | 12/15/2009 | 9058797 | 5/16/2015 | 7/26/2032 | BSSUED | 12/16/2022 157 |
| | | | Corrected Vocal Capture Device Cooperative With | | Salazar, Spencer Fiebrink, Rebecca A | | | | | | | | MAINT FEE DUE |
| | | | Content Server For Backing Track Mix | | Wang, Ge Ljungstrom, Mattias Smith, Jeffrey C | | | | | | | | |
| 50342.00034US02 | | JS | Continuous Pitch Corrected Vocal Capture | | | 14/720320 | 5/22/2015 | 12/15/2009 | 9754571 | 9/5/2017 | 9/28/2030 | ISSUED | 3/05/2025 1ST |
| | | | Confeder vical Captale Device Cooperative with Content Server for Backing | | Fiebrink, Rebecca A Wang, Ge | | | | | | | | MAINT FEE DUE |
| | | | Track Mix | | Ljungstrom, Mattias Smith, Jeffrey C. | | | | | | | | |
| 50342 00014US03 | | | Continuous Pitch- Corrected Vocal Capture | UTL | Cook, Perry R Salazar, Spencer | 15/693946 | 9/1/2017 | 12/15/2009 | 10685634 | 6/16/2020 | 9/4/2030 | ISSUED | 12/16/2023 1ST MAINT FEE DUE |
| | | | Device Cooperative With Content Server For Backing Track Mix | | Fiebrink, Rebecca A. Wang, Ge Ljungstrom, Mattias | | | | | | | | |
| *************************************** | | | | | Smith, Jeffrey C | +**(000003 | #14.4 (MAMA | 1840,8000 | | | | 55110010 | 2)16(4)27(2)20 |
| 50342 00014US04 | | | Continuous Pitch Corrected Vocal Capture Device Cooperative With | UTL | Cook, Perry R Salazar, Spencer Fiebrink, Rebecca A | 16/696891 | 6/11/2020 | 12/15/2009 | | | | PENDING | AWAITING OFFICE ACTION |
| | | | Content Server For Backing Track Mix | | Wang, Ge Ljungstrom, Mattias Smith, Jeffrey C | | | | | | | | |
| 50342.00015 140-0 | 008-AU . | AU | Continuous Pitch | UTL | Wang, Ge | 2010332041 | 12/13/2010 | 12/15/2009 | 2010332041 | 10/18/2014 | 12/13/2030 | ISSUED | 12/13/2021 |
| | | | Corrected Vocal Capture Device Cooperative With Content Server | | Salazar, Spencer Fiebrink, Rebecca A. Smith, Jeffrey C. | | | | | | | | ANNUITY DUE |
| | | | | | Ljungstrom, Mattias Cook, Perry R | | | | | | | | |
| 50342.00016 140-00 | 008-CA | GA . | Continuous Pitch Corrected Vocal Capture | UTL | Wang Ge Salazar Spencer | 2786241 | 12/13/2010 | 12/15/2009 | 2786241 | 6/12/2018 | 12/13/2030 | ISSUED | 12/13/2021 ANNUITY DUE |
| | | | Device Cooperative With Content Server | | Fiebrink, Rebecca A. Smith, Jeffrey C. | | | | | | | | |
| | | | | | Ljungstrom, Mattias Cook, Perry R | | | | | | | | |
| 50342.00017 140-0 | 008-GB | | Continuous Pitch Corrected Vocal Capture Device Cooperative With | UTL | Wang, Ge Salazar, Spencer Fiebrink, Rebecca A | 1211876.6 | 12/13/2010 | 12/15/2009 | 2488957 | 5/33/2017 | 12/13/2030 | ISSUED | 12/13/2021 ANNUITY DUE |
| | | | Content Server | | Smith Jeffrey C Ljungstrom Mattias | | | | | | | | |
| 50342.00025US01 140-00 | 010 | US | Pitch-Correction Of Vocal | UTL | Cook, Perry R. Cook, Perry R. | 13/085413 | 4/12/2011 | 4/12/2010 | 8868411 | 10/21/2014 | 12/27/2032 | ISSUED | 04/21/2022 2ND |
| | | | Performance In Accord With Score-Coded | | Lazier, Ari Lieber, Tom | | | | | | | | MAINT FEE DUE |
| 50342.00025US02 140-00 | 010-1 | US | Harmonies Pitch-Correction Of Vocal Performance In Accord | UTL | Kirk, Turner Evan Cook, Perry R. Lazier, Ari | 14/517647 | 10/17/2014 | 4/12/2010 | 9852742 | 12/26/2017 | 9/4/2030 | ISSUED | 06/26/2021 1ST MAINT FEE DUE |
| E0242 0002511604 | | US | With Score-Coded Harmonies | 1171 | Lieber, Tom Kirk, Turner Evan | 17/249169 | 2/22/2021 | | | | | DENDING | |
| 50342.00025US04 | | | Pitch-Correction Of Vocal Performance In Accord With Score-Coded Harmonies | | Cook, Perry R. Lazier, Ari Lieber, Tom Kirk. Turner Evan | | | | | | | PENDING | 5/23/21 MISSING PARTS DUE |
| 50342.00025US03 | | | Pitch-Correction Of Vocal Performance In Accord With Score-Coded Harmonies | | Cook, Perry R. Lazier, Ari Lieber, Tom Kirk, Turner Evan | 15/849194 | 12/20/2017 | 4/12/2010 | 10930296 | 2/23/2021 | 9/14/2030 | ISSUED | 8/23/2024 1ST MAINT FEE DUE |
| 50342.00025CA01 140-00 | 010-CA (| CA | Continuous Score-Coded Pitch Correction And Harmony Generation Techniques For Geographically Distributed Glee Club | UTL | | 2796241 | 4/12/2011 | 4/12/2010 | | | 4/12/2031 | ALLOWED | AWAITING GRANTED PATENT |

4832-1949-7810 1/10 **PATENT** 4/12/2021

| Reference # | Prior Reference # | СТҮ | Title | Туре | Inventor Names Combined | Serial # | Filed Date | Priority Date | Patent # | Issue Date | Expiration Date | Status | Next Due (Current) |
|------------------------------------|--------------------------------|----------|---|------|---|------------------------|------------------------|------------------------|---------------------|-------------------------|------------------------|----------------|---|
| 50342.00025GB01 | 140-0010-GB1 | GB | Pitch Correction And Harmony Generation Techniques For Geographically Distributed | UTL | Lieber, Tom Cook, Perry R. Lazier, Ari Kirk, Turner Evan | 1218365.3 | 4/12/2011 | 4/12/2010 | 2493470 | 6/7/2017 | 4/12/2031 | ISSUED | 04/12/2022 ANNUITY DUE |
| 50342.00025GB02 | 140-0010-GB2 | GB | Glee Club Continuous Score-Coded Pitch Correction And Harmony Generation Techniques For Geographically Distributed Glee Club | UTL | Lieber, Tom Cook, Perry R. Lazier, Ari Kirk, Turner Evan | 1706935.2 | 4/12/2011 | 4/12/2010 | 2546686 | 10/11/2017 | 4/12/2031 | ISSUED | 04/12/2022 ANNUITY DUE |
| 50342.00025GB03 | 140-0010-GB3 | GB | Continuous Score-Coded Pitch Correction And Harmony Generation Techniques For Geographically Distributed Glee Club | UTL | Lieber, Tom Cook, Perry R. Lazier, Ari Kirk, Turner Evan | 1706936.0 | 4/12/2011 | 4/12/2010 | 2546687 | 3/7/2018 | 4/12/2031 | ISSUED | 04/12/2022 RENEWAL DUE |
| 50342.00025HK02 | | нк | Continuous Score-Coded Pitch Correction And Harmony Generation Techniques For Geographically Distributed Glee Club | | LIEBER, Tom COOK, Perry R. LAZIER, Ari KIRK, Turner Evan | 18101330.7 | 1/26/2018 | 4/12/2010 | 1242465 | 9/13/2019 | | ISSUED | 04/12/2023 ANNUITY DUE |
| 50342.00025HK03 | | нк | Continuous Score-Coded Pitch Correction And Harmony Generation Techniques For Geographically Distributed Glee Club | | LIEBER, Tom COOK, Perry R. LAZIER, Ari KIRK, Turner Evan | 18101314.7 | 1/26/2018 | 4/12/2010 | 1242037 | 9/6/2019 | | ISSUED | 4/12/2026 ANNUITY DUE |
| 50342:00028 | 140-0012 US | US. | Glee Club Coordinating And Mixing Vocats Captured From Geographically Distributed Performers | UTL | Cook, Perry R Lazier Ari Lieber, Tom Kirk, Turner Evan | 13/085414 | 4/12/2011 | 4/12/2010 | 8983829 | 3/17/2015 | 5/1/2033 | ISSUED | 09/17/2022 2ND MAINT FEE DUE |
| 50342.00028US02 50342.00028US03 | | US US | Coordinating and Mixing Vocals Captured from Geographically Distributed Performers Coordinating And Mixing | UTL | Cook, Perry R. Lazler, Ari Lieber, Tom Kirk, Turner Evan Cook, Perry R. | 14/656344 15/664659 | 3/12/2015 7/31/2017 | 4/12/2010 4/12/2010 | 9721579 10395666 | 8/1/2017 8/27/2019 | 12/9/2030 9/4/2030 | ISSUED | 02/01/2025 1ST MAINT FEE DUE 2/27/2023 1ST |
| | | | Vocals Captured From Geographically Distributed Performers | | Lazier, An Lieber, Tom Kirk, Turner Evan | | | | | | | | MAINT FEE DUE |
| 50342.00028US04 50342.00029 | 140-0013 US | US US | Coordinating And Mixing Vocats Captured From Geographically Distributed Performers Computational Techniques For Continuous Pitch Correction And Harmony | UTL | Cook, Perry R Lazier, Arr Lieber, Tom Kirk, Jurner Evan Cook, Perry R. Lazier, Arr Lieber, Tom | 16/550769 13/085415 | 8/25/2019 4/12/2011 | 4/12/2010 4/12/2010 | 8996364 | 3/31/2015 | 4/17/2033 | ALLOWED ISSUED | 6/24/2021 ISSUE FEE DUE 09/30/2022 1ST MAINT FEE DUE |
| 50342 00032 | 140-0015 US | US | Generation Continuous Score Coded Pitch Correction | UTL | Cook, Perry R. Salazar: Spencer Fiebrink, Rebecca A. | 12/876132 | 9/4/2010 | 4/12/2010 | 9147355 | 9/29/2015 | 7/19/2032 | ISSUED | 03/29/2023 15T MAINT FEE DUE |
| 50342 D0D32US02 | | US | Continuous Scorg-Coded | UTL | Wang, Ge Ljungstrom, Mattias Smith, Jeffrey C. Cook, Perry R | 14/858152 | 9/16/2015 | 4/12/2010 | 9754572 | 9/5/2017 | 9/4/2030 | JESUED | 03/05/2025 1ST |
| | | | Pitch Correction | | Salazar, Spencer Fiebrink, Rebecca A Wang, Ge Ljungstrom, Mattias Smith: Jeffrey C | | | | | | | | MAINT FEE DUE |
| 50342 000321/503 | | US | Communus Score-Coded Prich Correction | UTL | Cook, Perry R Salazar, Spencer Fiebrink, Rebecca A Wang, Ge Ljungstrom, Mattias Smith, Jeffrey C | 15/694461 | 9/1/2017 | 4/12/2010 | 10672376 | 6/2/2020 | 9/4/2030 | ISSUED | 12/2/2023 1ST MAINT FEE DUE |
| 50342.00033 | 140-0016 US | US | World Stage For Pitch- Corrected Vocal Performances | | Wang, Ge Salazar, Spencer Fiebrink, Rebecca A. Ljungstrom, Mattias Smith, Jeffrey C. Yang, Jeannie | 12/876133 | 9/4/2010 | 12/15/2009 | 8682653 | 3/25/2014 | 1/9/2032 | ISSUED | 09/25/2021 2ND MAINT FEE DUE |
| 50342,00034 | 140-0017 US | US | System And Method For Capture And Rendering Of Performance Of Synthetic String Instrument | UTL | Wang, Ge Yang, Jeannie Oh, Jieun Lieber, Tom | 13/292773 | 11/9/2011 | 11/9/2010 | 8772621 | 7/8/2014 | 12/22/2031 | ISSUED | 01/08/2022 2ND MAINT PEE DUE |
| 50342.00034US02 | 50342.00081 | US | System And Method For Capture And Rendering Of Performance On Synthetic String Instrument | | Wang, Ge Yang, Jeannie Oh, Jieun Lieber, Tom | 14/323667 | 7/3/2014 | 11/9/2010 | 9640160: | 5/2/2017 | 12/21/2031 | | 11/02/2024 1ST MAINT FEE DUE |
| 50342.00034US03 50342.00037 | 50342.00081US03 140-0018 US | us Us | System And Method For Capture And Rendering Of Performance On Synthetic String Instrument Audiovisual Sampling For | | Wang, Ge Yang, Jeannie Oh, Jieun Lieber, Tom Kruge, Nicholas M. | 15/583632 13/607153 | 5/1/2017 9/7/2012 | 9/7/2011 | 9176610 | 12/25/2018 11/3/2015 | 11/9/2031 3/21/2034 | ISSUED | 6/25/2022 16T MAINT FEE DUE 05/03/2023 2ND |
| | | | Percussion-Type Instrument With Crowd- Sourced Content Sourcing And Distribution | | Wang, Ge Cook, Perry R. | | | | | | | | MAINT FEE DUE |

2/10 4/12/2021 4832-1949-7810 **PATENT REEL: 055937 FRAME: 0215**

| Reference # | Prior Reference # | СТҮ | Title | Туре | Inventor Names Combined | Serial # | Filed Date | Priority Date | Patent # | Issue Date | Expiration Date | Status | Next Due (Current) |
|--------------------------------|------------------------------------|----------|---|------|---|--------------------------|------------------------|------------------------|--------------------|-----------------------|------------------------|----------------|---|
| 50342:00039 | 14G-0039 US | US | Synthetic Musical Instrument With Pertermance And/Or Skill- | UTL | Hamilton, Robert Chaudhary, Amanda S | 13/664939 | 10/31/2012 | 10/31/2011 | 9052380 | 7/14/2015 | 4/3/2033 | ISSUED | 01/14/2023 1ST MAINT FEE DUE |
| 50342.00039US02 | | U5 | Adaptive Score Tempo Synthetic Musical Instrument With Performance - And/Or Skill Adaptive Score Tempo | UTL | Lazier, Ari Smith, Jeffrey C. Hamilton, Robert Lazier, Ari Smith, Jeffrey C. Chaudhary, Amar | 14/797695 | 7/13/2015 | 10/31/2011 | 9620095 | 4/11/2017 | 10/31/2032 | ISSUED | 10/11/2024 1ST MAINT FEE DUE |
| 50342.00041 | 140-0020 US | US | Synthetic Multi-String Musical Instrument With Score Coded Performance Effect Cues And/Or Chord Sounding Gesture Capture | UTL | Hamilton, Robert Kruge, Nicholas M. Wang, Ge | 13/715920 | 12/14/2012 | 12/14/2011 | 9035162 | 5/19/2015 | 3/7/2033 | ISSUED | 11/19/2022 1ST MAINT FEE DUE |
| 50342 00046 | 140-0022 US | US | Automatic Conversion Of Speech Into Song, Rap Or Other Audible Expression Having Target Meter Or Rhythm | UTL | Chordia, Parag P. Godfrey, Mark T. Rae, Alexander M.D. Gupta, Prema Gook, Perry R. | 13/853759 | 3/29/2013 | 3/29/2012 | 9324330 | 4/26/2016 | 4/2/2034 | ISSUED | 10/26/2023 15T MAINT FEE DUE |
| 50342.00046US02 | 140-0022-1US 50342-00063 | US | Automatic Conversion Of Speech Into Seng, Rap, Or Other Audible Expression Having Target Meter Or Rhythm | | Gupta: Prema Cook, Perry R Chordia: Parag Godfrey, Mark Rae, Alexander | 13/910949 | 6/5/2013 | 3/29/2012 | 9565199 | 5/30/2017 | 7/18/2033 | ISSUED | 11/30/2024 1ST MAINT FEE DUE |
| 50342.00046US03 | 50342.00063US02 50342.00063US03 | us us | Automatic Conversion Of Speech into Song, Rap, Or Other Audible Expression Having Target Meter Or Rhythm Automatic Conversion Of | UTL | Chordia, Parag Godfrey, Mark Rae, Alexander Gupta, Prema Gook, Perry R. Chordia, Parag | 19/808111 16/410500 | 5/26/2017 5/13/2019 | 3/29/2012 5/26/2017 | 10290307 | 5/14/2019 | 3/29/2033 | ISSUED PENDING | 11/14/2022 15T MAINT FEE DUE 4/5/2021 2 MO |
| | | | Speech into Song, Rap. Or Other Audiblic Expression Having Target Meter Or Rhythm | | Godfrey, Mark Rae, Alexander Gupta, Prema Cook, Perry R | | | | | | | | RESPONSE TO FINAL ACTION DUE (TO BE FILED 4/5) |
| 50342 000B3 | | KR | Automatic Conversion Of Speech Into Song, Rap Or Other Audible Expression Having Target Meter Or Rhythin | UTL | Chordia, Parag Godfrey, Mark Rae, Alexander Gupta, Prema Cook, Perny R | 2014-7030440 | 3/29/2013 | 3/29/2012 | 10-2038171 | 10/23/2019 | 3/29/2033 | ISSUED | 10/23/2022 ANNUITY DUE |
| 50342 00084 50342 00066US01 | 140-0028-US | S∯. | Automatic Conversion Of Speech Inte Song, Rap Or Other Audible Expression Having Target Meter Or Rhythm Automatic Estimation Of | UTL | Chordia, Parag Godfrey, Mark Rae: Alexander Gupta: Prema Ceck, Perry R Amanda S. | 2015-603661 14/216136 | 3/29/2013 3/17/2014 | 3/29/2012 | 5290555 9412390 | 2/16/2018 8/9/2016 | 3/29/2033 7/30/2034 | ISSUED | 02/16/2022 ANNUITY DUE |
| 50342.00066US02 | | US | Latency For Synchronization Of Recordings In Vocal Capture Applications Crowd-Sourced Device | UTL | Chaudhary Chaudhary, Amanda | 15/178234 | 6/9/2016 | 3/15/2013 | 10284985 | 5/7/2019 | 3/17/2034 | ISSUED | MAINT FEE DUE |
| 30342.000000302 | | 55 | Latency Estimation For Synchronization Of Recordings In Vocal Capture Applications | OIL | Steinwedel, David Shimmin, John Jabr, Lance Leistikow, Randal | 15/11/02/54 | 0.372010 | 5/15/2015 | 10204303 | 5/1/2019 | 5/1/2554 | ISSOLD | MAINTENANCE FEE DUE |
| 50342.00066US03 | | US | Crowd-Sourced Device Latency Estimation For Synchronization Of Recordings In Vocal Capture Applications | UTL | Chaudhary, Amanda Steinwedel, David Shimmin, John Jabr, Lance Leistikow, Randal | 16/403939 | 5/6/2019 | 3/15/2013 | | | | PENDING | 4/07/2021 RESPONSE TO FINAL OA DUE |
| 50342 00069 | | US | Social Music System And Method With Continuous Real-Time Pitch Correction Of Vocal Performance And Dry Vocal Capture For Subsequent Re-Rendering Based On Selectively Applicable Vocal Effoct(s) | | Yang, Jeannie Kruge Nicholas M Thempsen, Gregory C Ceck, Perry R | 13/950564 | 8/6/2013 | 8/7/2012 | 9601127 | 3/24/2017 | 12/4/2033 | ISSUED | 09/21/2024 1ST MAINT FEE DUE |
| 50342:00069US02 | | us | Schedule(s) Social Music System And | UTL | Yang, Jeannie | 15/463678 | 3/20/2017 | 4/12/2010 | 10229662 | 3/12/2019 | 4/12/2 031 | ISSUED | 9/12/2022 16T |
| | | | Method With Continuous. Real-Time Pitch Cerrection Of Vocal Performance And Dry Vocal Capture For Subsequent Re Rendering Based On Selectively Applicable Vocal Effect(s) | | Kruge, Nicholas M. Thompson, Gregory C Cook, Perry R | | | | | | | | MAINT FEE BUE |
| | | | Schedule(s) | | | | | | | | | | |

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| 50342.00069US03 | | US | Social Music System And Method With Continuous Real Time Pitch Correction | | Yang, Jeannie Kruge, Nicholas M Thompson, Gregory | 16/296391 | 3/8/2019 | 4/12/2010 | 10930256 | 2/23/2021 | 4/12/2031 | ISSUED | 8/23/2024 15T MAINT FEE DUE |
| | | | Of Vocal Performance And Dry Vocal Capture For | | Cook, Peny R | | | | | | | | |
| | | | Subsequent Re-Rendering Based On Selectively Applicable Vocal Effect(s) | | | | | | | | | | |
| | | | Schedule(s) | | | | | | | | | | |
| 50342 00069US04 | | US | Social Music System And Method With Continuous | | Yang, Jeannie Kruge, Nicholas M | 17/249113 | 2/19/2021 | | | | | PENDING | 5/3/21 MISSING PARTS DUE |
| | | | Real-Time Pitch Correction Of Vocal Performance And Dry Vocal Capture For | | Thempson, Gregory C. Cook, Perry R. | | | | | | | | |
| | | | Subsequent Re-Rendering Based On Selectively Applicable Vocal Effect(s) | | | | | | | | | | |
| | | | Schedule(s) | | | | | | | | | | |
| 50342.00070JP01 | | JΡ | Karaoke System And Method With Real-Time | UTL | Yang, Jeannie Kruge, Nicholas M | 2015-526650 | 8/6/2013 | 8/7/2012 | 6371283 | 7/20/2018 | 8/6/2033 | ISSUED | 07/20/2021 ANNUITY DUE |
| | | | Continuous Pitch Correction Of Vocal Performance And Dry | | Thompson, Gregary C Coak, Perry R | | | | | | | | |
| | | | Vecal Capture For Subsequent Re- | | | | | | | | | | |
| 50342.00070KR01 | | KR | Rerendering Karaoke System And Method With Real-Time | UTL | Yang, Jeannie Kruge, Nicholas M | 2015-7005988 | 8/6/2013 | 8/7/2012 | | | 8/6/2033 | ALLOWED | 9/16/2021 FINAL FEE / DIVISIONAL |
| | | | Continuous Pitch Correction Of Vocal Performance And Dry | | Thompson Gregory C. Cook, Perry R. | | | | | | | | DUE |
| | | | Vocal Capture For Subsequent Re- | | O80K 1 0313 11 | | | | | | | | |
| 50342.00073 | | US | Rerendering Audiovisual Capture And Sharing Framework With | UTL | Chordia, Parag P. Cook, Perry R. | 14/104618 | 12/12/2013 | 12/12/2012 | 9459768 | 10/4/2016 | 1/11/2034 | ISSUED | 04/04/2024 2ND MAINT FEE DUE |
| | | | Coordinated User- Selectable Audio And Video Effects Filters | | Godfrey, Mark T. Gupta, Prema Kruge, Nicholas M. Leistikow, Randal J. Rae, Alexander M.D. | | | | | | | | |
| 50342.00073US03 | | US | Audiovisual Capture And | UTL | Simon Ian S Chordia, Parag P. | 16/834775 | 3/30/2020 | 12/12/2012 | | | | PENDING | 9/30/2021 |
| | | | Sharing Framework With Coordinated User- Selectable Audio And Video Effects Filters | | Cook, Perry R. Godfrey, Mark T. Gupta, Prerna Kruge, Nicholas M. Leistikow, Randal J. Rae, Alexander M.D. | | | | | | | | AWAITING OFFICE ACTION |
| 50342.00073US02 | | us | Audiovisual Capture And Sharing Framework With | UTL | Simon Ian S Chordia, Parag P. Cook, Perry R. | 15/284229 | 10/3/2016 | 12/12/2012 | 10,607,650 | 3/31/2020 | 3/29/2033 | ISSUED | 9/30/2023 1ST MAINT FEE DUE |
| | | | Coordinated, User- Selectable Audio And Video Effects Filters | | Godfrey, Mark T. Gupta, Prema Kruge, Nicholas M. Leistikow, Randal J. Rae, Alexander M.D. | | | | | | | | |
| 50342.00075US01 | | US | Computationally-Assisted Musical Sequencing | UTL | Simon Ian S Leistikow, Randal J Godfrey, Mark | 14/587825 | 12/31/2014 | 12/31/2013 | 10262644 | 4/16/2019 | 12/31/2034 | ISSUED | 10/16/2022 1ST MAINT FEE DUE |
| | | | And/Or Composition Techniques For Social Music Challenge Or Competition | | Simon, lan S. Yang, Jeannie Allen, Michael W. | | | | | | | | |
| 50342 00075US02 | | US . | Computationally-Assisted Musical Sequencing And/Or Composition | UTL | Leistikow, Randal J. Godfrey, Mark Simon, Ian S. | 16/384273 | 4/15/2019 | 12/31/2013 | | | | PENDING | AWAITING OFFICE ACTION |
| | | | Techniques For Social Music Challenge Or | | Yang, Jeannie Allen, Michael W. | | | | | | | | |
| 50342.00078US01 | | US | Campetition Score-Directed String | UTL | Kruge, Nick | 14/285391 | 5/22/2014 | 5/22/2013 | 9472178 | 10/18/2016 | 1/2/2035 | ISSUED | 04/18/2024 2ND |
| | | | Retuning And Gesture Cueing In Synthetic Multi- String Musical Instrument | | | | | | | | | | MAINT FEE DUE |
| 50342 00079US01 | | US | Coordinated Audiovisual Montage From Selected | UTL | Gedfrey, Mark T Kirk, Turner Evan | 14/739910 | 6/15/2015 | 6/13/2014 | 10971191 | | 6/15/2035 | ALLOWED | AWAITING ISSUED PATENT |
| | | | Crowd-Sourced Content With Alignment To Audio Baseline | | Simon, lan S Kruge, Nicholas M | | | | | | | | |
| 50342:00079US02 | | US | Coordinated Audiovisual Montage From Selected Crowd-Sourced Content With Alignment To Audio | CON | Godfrey: Mark T Kirk: Turner Evan Simon, lan S Kruge: Nicholas M | 177222752 | 4/5/2021 | | | | | PENDING | AWTG FILING RECEIPT |
| 50342 00079VVG01 | | WO | Baseline Coordinated Audiovisual | UTL | Godfrey, Mark T | PCT/US2015/035830 | 6/15/2015 | 5/13/2014 | | | | EXPIRED | |
| | | | Montage From Selected Crowd-Sourced Content With Alignment To Audio Baseline | | Kirk, Turner Evan Simon, lan S Kruge, Nicholas M | | | | | | | | |

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| 50342.00086US01 | | lus | Coordinating And Mixing Audiovisual Content Captured From Geographically Distributed Performers | UTL | Rae, Alexander M.D. | 14/928727 | 10/30/2015 | 10/30/2014 | 9866731 | 1/9/2018 | 4/12/2031 | ISSUED | 07/09/2021 1ST MAINT FEE DUE |
| 50342.00086WO01 | | wo | Coordinating And Mixing Audiovisual Content Captured From Geographically Distributed | UTL | Godfrey, Mark T. Cook, Perry R. | PCT/US2015/058373 | 10/30/2015 | 10/30/2014 | | | | EXPIRED | |
| 50342.00086US01 | | US | Performers | UTL | Godfrey, Mark T. Cook, Perry R. | 14/928727 | 10/30/2015 | | 9866731 | 1/9/2018 | | ISSUED | 7/9/2021 1ST MAINT FEE DUE |
| 50342.00086US03 | | US | Coordinating And Mixing Audiovisual Content Captured From Geographically Distributed Performers | UTL | Godfrey, Mark T. Cook, Perry R. | 16/814132 | 3/10/2020 | | | | | PENDING | AWAITING OFFICE ACTION |
| 50342.00086US02 | | us | Coordinating And Mixing Audiovisual Content Captured From Geographically Distributed Performers | UTL | Godfrey, Mark T. Cook, Perry R. | 15/864819 | 1/8/2018 | 4/12/2011 | 10587780 | 3/10/2020 | | ISSUED | 9/10/2023 1ST MAINT FEE DUE |
| 50342:D0D87US01 | | US | Automated Generation Of Coordinated Audiovisual Work Based On Content Captured Geographically | UTL | Sung, Kevin Moldover, Jan Cook, Perry R Kim, Bona | 15/173041 | 6/3/2016 | 6/3/2015 | 9911403 | 3/6/2018 | 6/\$/2036 | ISSUED | 9/06/2021 1ST MAINT FEE DUE |
| 50342 00087US02 | | US | Distributed Performers Automated Generation Of | UTL | Shimmin, John Yang, Jeannie Sung, Kevin | 15/910646 | 3/2/2018 | 6/3/2015 | 10424283 | 9/24/2019 | 6/3/2036 | ISSUED | 3/24/2023 15T |
| | | | Coordinated Audiovisual Work Based On Content Captured Geographically Distributed Performers | | Moldover, Joh Cock, Perry R Kim, Bona Shimshin, John Yang, Jeannie | | | | | | | | MAINT FEE DUE |
| 50342.00087US03 | | us | Automated Generation Of Geordinated Audiovisual Work Based On Content | UTL | Sung, Kevin Moldover, Jon Gook, Perry R | 16/574971 | 9/18/2019 | 6/3/2015 | | | | PENDING | AWAITING OFFICE ACTION |
| | | | Captured Geographically Distributed Performers | | Kim, Bona Shimmin, John Yang, Jeannis | | | | | | | | |
| 50342.00087VVO01 | | WO | Automated Generation Of Coordinated Audiovisual Work Based On Content Captured From Geographically Distributed | UTL | Sung, Kevin Moldover, Jon Cook, Perry R Kim, Bona Shimmin, John | PCT/US2016/035810 | 6/3/2016 | 6/3/2015 | | | | EXPIRED | |
| 50342 00087AU01 | | AU | Performers Automated Generation Of Coordinated Audiovisual Work Based On Content | | Yang Jeannie Sung Kevin Moldover, Jon Cook, Perry R | 2016270352 | 6/3/2016 | 6/3/2015 | 2016270352 | 2/22/2021 | | ISSUED | 12/23/2021 ANNUITY DUE |
| | | | Captured From Geographically Distributed Performers | | Kim, Bona Shimmin, John Yang, Jeannie | | | | | | | | |
| 50342.00087CND1 | | CN | Automated Generation Of Coordinated Audiovisual Work Based On Content Captured From Geographically Distributed | | Sung, Kevin Moldover, Jen Coek, Perry R Kim, Bona Shiminin, John | 201680032651.6 | 6/3/2016 | 6/3/2016 | | | | PENDING | AWTO OFFICE ACTION |
| 50342 00087GB01 | | GB | Performers Automated Generation Of Coordinated Audiovisual Work Based On Content | | Yand Jeannie Sung Kevin Moldover, Jon Cook, Perry R | 1719624 7 | 6/3/2016 | 6/3/2015 | | | | PENDING | 11/19/2021 ACCEPTANCE |
| | | | Captured From Geographically Distributed Performers | | Kim, Bona Shimmin, John Yang, Jeannie | | | | | | | | DEADLINE |
| 50342.00087HK01 | | HK | Automated Generation Of Coordinated Authovisual Work Based On Content | | Sung, Kevin Moldaver, Jon Gook, Perry R | 18114438 1 | 11/12/2018 | 6/3/2015 | | | | PENDING | 11/12/2023 STAGE 2 STATUS CHECK |
| 50342 00087KR01 | | KR | Captured From Geographically Distributed Performers Automated Generation Of | | Kim, Bona Shimmin, John Yang, Jeannie Sung, Kevin | 2017-7034851 | 6/3/2016 | 6/3/2015 | | | | PENDING | 06/03/2021 |
| | | | Coordinated Audiovisual Work Based On Coment Captured From Geographically Distributed Performers | | Moldover, Joh Cook, Perry R Kim, Bona Shimmin, John | | | | | | | | REQUEST EXAMINATION |
| 50342.00089US01 | | US | Synthetic Musical Instrument With Touch Dynamics And/Or Expressiveness Control | UTL | Yang: Jeannie Cook, Perry R. Yang, Jeannie Woo, Yuning Shimmin, John Leistikow, Randal Berger, Michael Smith, Jeff | 15/275807 | 9/26/2016 | 10/31/2011 | 9761209 | 9/12/2017 | 10/31/2032 | ISSUED | 03/12/2025 2ND MAINT FEE DUE |
| 50342.00089WO01 | | wo | Synthetic Musical Instrument With Touch Dynamics And/Or Expressiveness Control | UTL | Cook, Perry R. Yang, Jeannie Woo, Yunig Shimmin, John Berger, Michael Leistikow, Randal Smith, Jeff | PCT/US2016/053731 | | 9/24/2015 | | | | EXPIRED | |
| 50342:00090U:S02 50342:00090U:S03 | | US US | Display Screen or Portion Therof with Animated Graphical User Interface Display Screen or Portion | DES DES | Hersh, Benjamin Shimmin, John Yang, Jeannie Gook, Perry R Hersh, Benjamin | 29/566061 29/566062 | 5/26/2016 5/26/2018 | 10/8/2015 | D839267 | 1/29/2018 10/24/2017 | 10/8/2035 | ISSUED | |
| | | | Thereof with Animated Graphical User Interface | | Shimmin, John Yang, Jeannie Cook, Perry R | | | | | SETIEST | | | |

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| 50342:00090US04 | US | Display Screen Or Portion Thereof With Animated | DES: | Hersh, Benjamin Shimmin, John | 29/586239 | 5/27/2018 | 10/8/2015 | D805528 | 12/19/2017 | | ISSUED | |
| | | Graphical User Interface | | Yang, Jeannie Cook, Perry R | | | | | | | | |
| 50342:00090US05 | us | Display Screen Or Portion Thereof With Animated | DES | | 29/566242 | 5/27/2016 | 10/8/2015 | 0806092 | 12/26/2017 | | ISSUED. | |
| | | Graphical User Interface | | Yang, Jeannie Cook, Perry R | | | | | | | | |
| 50342:00090US06 | US | Animated Graphical User Interface For A Display | DES | Shimmin, John | 29/566249 | 5/27/2016 | 10/8/2015 | D805529 | 12/19/2017 | | ISSUED | |
| | | Screen Or Portion Thereof | | Yang, Jeannie Gook, Perry R | | | | | | | | |
| 50342,00090US07 | US | Thereof with Animated | DES | Shimmin, John | 29/566255 | 5/27/2018 | 10/8/2015 | D807381 | 1/9/2018 | | ISSUED | |
| 50342:00090US08 | US | Graphical User Interface Display Screen Or Portion | MES | Yang, Jeannie Cook, Perry R. Hersh, Benjamin | 29/566070 | 5/26/2016 | 10/8/2015 | D801364 | 10/31/2017 | 10/31/2032 | BESHED | |
| SCHTA SPONGORNOUS | | Thereof With Animated Graphical User Interface | | Shimmin, John Yang, Jeannie | | V | | 0087807 | VIO (CM) | | /www. | |
| 50342:00090US09 | US | Graphical User Interface | DES | Cook, Perry R. | 29/586074 | 5/25/2016 | 10/8/2015 | D803245 | 11/21/2017 | | ISSUED | |
| | | For A Display Screen Or Portion Thereof | | Shimmin, John Yang, Jeannie | | | | | | | | |
| 50342:00090US10 | us | Display Screen or Portion | DES | Cook, Perry R. Hersh, Benjamin | 29/566079 | 5/26/2016 | 10/8/2015 | D801999 | 11/7/2017 | 11/7/2032 | ISSUED | |
| | | Thereof with Graphical User interface | | Shimmin, John Yang, Jeannie | | | | | | | | |
| 50342:00090US11 | US | | DES | | 29/566085 | 5/26/2016 | 10/8/2015 | D800752 | 10/24/2017 | 10/24/2032 | ISSUED | |
| | | Thereof with Animated Graphical User Interface | | Shimmin, John Yang, Jeannie Cook, Perry R | | | | | | | | |
| 50342.00090US12 | US | Animated Graphical User Interface For A Display | DES. | Hersh, Benjamin Shimmin, John | 29/586090 | 5/25/2018 | 10/8/2015 | D800753 | 10/24/2017 | 10/24/2032 | ISSUED | |
| | | Screen Or Portion Thereof | | Yang, Jeannie Cook, Perry R | | | | | | | | |
| 50942:00090US13 | us | Display Screen Or Portion Thereof With Graphical | DES | Hersh, Benjamin Shimmin, John | 29/568285 | 5/27/2016 | 10/8/2015 | D805530 | 12/19/2017 | | BSUED | |
| | | User Interface | | Yang, Jeannie Cook, Perry R. | | | | | | | | |
| 50342:00090US14 | US | Graphical User Interface For A Display Screen Or | DES | Shimmin, John | 29/566269 | 5/27/2016 | 10/8/2015 | D813265 | 3/20/2018 | | ISSUED | |
| | | Portion Thereof | | Yang, Jeannie Cook, Perry R | 00 F60 670 | | | | | | | |
| 50342.00090US15 | US | Graphical User Interface For A Display Screen Or | DES | Shimmin, John | 29/566279 | 5/27/2018 | 10/8/2015 | D805531 | 12/19/2017 | | ISSUED | |
| 50342:00090US15 | us | Portion Thereof Graphical User Interface | DES | Yang, Jeannie Cook, Perry R Hersh, Benjamin | 29/568288 | 5/27/2016 | 10/8/2015 | D813266 | 3/20/2018 | | ISSUED | |
| | | For A Display Screen Or Portion Thereof | | Shimmin, John Yang, Jeannie Cook, Perry R | | | | | | | | |
| 50342.00091US01 | US | Audiovisual Media Application Platform with Wireless Handheld Audiovisual Input | | Hersh, Benjamin Shimmin, John Yang, Jeannie Cook, Perry R. | 15/337866 | 10/28/2016 | 10/28/2015 | 10565972 | 2/18/2020 | 10/28/2036 | | 8/18/2023 1ST MAINTENANCE FEE DUE |
| 50342.00091US02 | US | Wireless Handheld Audio Capture Device and Multi- Vocalist Method for Audiovisual Media Application | UTL | Hersh, Benjamin Shimmin, John Yang, Jeannie Cook, Perry R. | 15/337891 | 10/28/2016 | 10/28/2015 | | | 10/28/2036 | PENDING | AWAITING OFFICE ACTION |
| 50342.00091WO01 | wo | Audiovisual Media Application Platform, Wireless Handheld Audio Capture Device And Multi- | | Hersh, Benjamin Shimmin, John Yang, Jeannie Cook, Perry R. | PCT/US2016/059531 | 10/28/2016 | 10/28/2015 | | | | EXPIRED | |
| | | Vocalist Methods Therefor | | | | | | | | | | |
| 50342.00096US01 | US | Crowd-Sourced Technique For Pitch Track Generation | | Sullivan, Stefan Shimmin, John Schaffer, Dean | 15/649040 | 7/13/2017 | 7/13/2016 | 10460711 | 10/29/2019 | 7/13/2037 | ISSUED | 4/29/2023 1ST MAINT FEE DUE |
| 50342.00096US02 | us | Crowd-Sourced Technique For Pitch Track Generation | | Cook, Perry R. Sullivan, Stefan Shimmin, John | 16/665611 | 10/28/2019 | | | | | PENDING | 6/16/2021 RESPONSE TO |
| 50342.00096WO01 | wo | Crowd-Sourced Technique | UTI | Schaffer, Dean Cook, Perry R. Sullivan, Stefan | PCT/US2017/041952 | 7/13/2017 | 7/13/2016 | | | | EXPIRED | OA CN, EP, IN |
| | | for Pitch Track Generation | | Shimmin, John Schaffer, Dean Cook, Perry R. | | | | 10339906 | 7/04/03/4/5 | D/4/2047 | | FILINGS |
| 50342 00097US01 | US | Musical Composition Authoring Environment Integrated With Synthetic | UTL | Espeleta, Charles Yang, Jeannie Cook, Perry R | 15/667372 | 8/2/2017 | 8/2/2016 | Ingesage | 7/2/2019 | 8/2/2037 | ISSUED | 1/2/2023 1ST MAINTENANCE FEE DUE |
| | | Musical Instrument | | Corrat, Oscar Moody, Jonathan | | | | | | | | |
| | | | | Xie: Ran Smith, Jeffrey C | | | | | | | | |
| | | | | Schaffer, Dean | | | | | | | | |
| 50342.00098US02 | US | Display Screen Or Portion Thereof With Animated Graphical User Interface | | Espeleta, Charles Yang, Jeannie Corral, Oscar Moody, Jonathan Xie, Ran | 29/600446 | 4/12/2017 | 8/2/2016 | D844664 | 4/2/2019 | | ISSUED | |
| | | | | Smith, Jeffrey C. Hamilton, Robert | | | | | | | | |

| Reference # | Prior Reference # | СТҮ | Title | Туре | Inventor Names Combined | Serial # | Filed Date | Priority Date | Patent # | Issue Date | Expiration Date | Status | Next Due (Current) |
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| 50342.00098US03 | | us | Display Screen Or Portion Thereof With Animated | DES | Espeleta, Charles Yang, Jeannie | 29/600449 | 4/12/2017 | 8/2/2016 | D845342 | 4/9/2019 | | ISSUED | |
| | | | Graphical User Interface | | Corral, Oscar Moody, Jonathan | | | | | | | | |
| | | | | | Xie, Ran Smith, Jeffrey C. | | | | | | | | |
| 50342.00098US04 | | us | Display Screen Or Portion Thereof With Animated | DES | Hamilton, Robert Espeleta, Charles Yang, Jeannie | 29/600450 | 4/12/2017 | 8/2/2016 | D844646 | 4/2/2019 | | ISSUED | |
| | | | Graphical User Interface | | Corral, Oscar Moody, Jonathan Xie, Ran | | | | | | | | |
| | | | | | Smith, Jeffrey C. Hamilton, Robert | | | | | | | | |
| 50342.00098US05 | | us | Display Screen Or Portion Thereof With Animated Graphical User Interface | DES | Espeleta, Charles Yang, Jeannie Corral, Oscar | 29/600452 | 4/12/2017 | 8/2/2016 | D844665 | 4/2/2019 | | ISSUED | |
| | | | | | Moody, Jonathan Xie, Ran | | | | | | | | |
| 50342.00098US06 | | US | Display Screen Or Portion | DES | Smith, Jeffrey C. Hamilton, Robert Espeleta, Charles | 29/600455 | 4/12/2017 | 8/2/2016 | D844666 | 4/2/2019 | | ISSUED | |
| | | | Thereof With Animated Graphical User Interface | | Yang, Jeannie Corral, Oscar Moody, Jonathan | | | | | | | | |
| | | | | | Xie, Ran Smith, Jeffrey C. | | | | | | | | |
| 50342.00098US07 | | US | Display Screen Or Portion Thereof With Animated | DES | Hamilton, Robert Espeleta, Charles Yang, Jeannie | 29/600456 | 4/12/2017 | 8/2/2016 | D844667 | 4/2/2019 | | ISSUED | |
| | | | Graphical User Interface | | Corral, Oscar Moody, Jonathan | | | | | | | | |
| | | | | | Xie, Ran Smith, Jeffrey C. Hamilton, Robert | | | | | | | | |
| 50342.00098US08 | | us | Display Screen Or Portion Thereof With Animated Graphical User Interface | DES | Espeleta, Charles Yang, Jeannie Corral, Oscar | 29/600458 | 4/12/2017 | 8/2/2016 | D844647 | 4/2/2019 | | ISSUED | |
| | | | Graphical Oser Interrace | | Moody, Jonathan Xie, Ran | | | | | | | | |
| 50342.00098US09 | | US | Display Screen Or Portion | DES | Smith, Jeffrey C. Hamilton, Robert Espeleta, Charles | 29/600460 | 4/12/2017 | 8/2/2016 | D845319 | 4/9/2019 | | ISSUED | |
| | | | Thereof With Animated Graphical User Interface | | Yang, Jeannie Corral, Oscar | 20,000,00 | | 0.2.2010 | 2010010 | | | 100025 | |
| | | | | | Moody, Jonathan Xie, Ran Smith, Jeffrey C. | | | | | | | | |
| 50342.00098US10 | | US | Display Screen Or Portion | DES | Hamilton, Robert Espeleta, Charles | 29/600461 | 4/12/2017 | 8/2/2016 | D837246 | 1/1/2019 | | ISSUED | |
| | | | Thereof With Animated Graphical User Interface | | Yang, Jeannie Corral, Oscar Moody, Jonathan | | | | | | | | |
| | | | | | Xie, Ran Smith, Jeffrey C. Hamilton, Robert | | | | | | | | |
| 50342 00099PV01 | | us | Audiovisual Collaboration Method with Latency | PRV | Holmberg, Anton Hersh, Benjamin | 62/480610 | 4/3/2017 | 4/3/2017 | | | | EXPIRED | US AND PCT FILED |
| | | | Management for Wide- Area Broadcast | | Yang: Jeannie Coek, Perry R. Smith: Jeffrey C. | | | | | | | | |
| 50342.00099PV02 | | US | Audiovisual Collaboration System and Method with Latency Management for | PRV | Holmberg, Anton Hersh, Benjamin Yang, Jeannie | 62/685727 | 6/15/2018 | 6/15/2018 | | | | EXPIRED | US AND PCT FILED |
| | | | Wide Area Broadcast and Social Media: Type User Interface Mechanics | | Woo, Yuning Liang, Wang Cook, Perry R | | | | | | | | |
| 50342:00099US01 | | US | Audiovisual Collaboration Method with Latency | UTIL | Smith Jeffrey C Halmberg Anton Hersh, Benjamin | 15/944,537 | 4/3/2018 | 4/3/2017 | | | | ALLOWED | 5/3/2021 ISSUE FEE DUE |
| | | | Management for Wide- Area Broadcast | | Yang, Jeannie Gook, Perry R | | | | | | | | |
| 50342.00099US02 | | US | Audiovisual Collaboration System and Method with | UTIL | Smith Jeffrey C. Holmberg, Anton Hersh, Benjamin | 16/443022 | 6/17/2019 | 6/15/2018 | | | | PENDING | 4/9/2021 RESPONSE TO |
| | | | Latency Management for Wide Area Broadcast and Social Media-Type User | | Yang: Jeannie Woo: Yuning Liang: Wang | | | | | | | | FINAL OA DUE + EOT |
| | | | Interface Mechanics | | Cook, Perry R. Smith, Jeffrey C. | | | | | | | | |
| | | | | | | | | | | | | | |
| 50342.00099CN02 | | CN | Audiovisual Livestream System And Method With Latency Management And | | Holmberg, Anton Hersh, Benjamin Yang, Jeannie | 201980052977.9 | 6/17/2019 | 6/15/2018 | | | | PENDING | 6/15/2021 REQUEST FOR EXAMINATION |
| | | | Social Media-Type User Interface Mechanics | | Woo. Yuning Liang, Wang | | | | | | | | DUE |
| | | | | | Cook, Perry R. Smith: Jeffrey C. | | | | | | | | |
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| | | | Latency Management And Social Media-Type User | | Yang, Jeannie Woo, Yuning | | | | | | | | EXAMINATION DUE |
| | | | Interface Mechanics | | Liang, Wang Cook, Perry R Smith, Jeffrey C | | | | | | | | |
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| Management for Wide-Area Broadcast COCK Perp R SMITH. Jointoy C COCK Perp R COCK P | iN GE 2 SGK |
| SMITH Jeffrey C | iN GE 2 SGK |
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| Management-for-Wide Area Broadcast CQCK Perry R REQUEST EXAMINATION REPORT REQUEST EXAMINATION REPORT REQUEST EXAMINATION REPORT REP | GE 2 GK |
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| | | | | | Perry R. Cook | | | | | | | | DUE |
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| | | | Segment Capture And Edit Platform | | Slobodien, Andrea Gook, Perry R | | | | | | | | FILINGS |
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| | | | Segment Capture And Edit Platform | | Stobodien, Andrea Cook, Perry R | | | | | | | | EXAMINATION |
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| | | | Platform | | Cook, Perry R | | | | | | | | EXAMINATION |
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| | | | Seed/Join Mechanic | | Smith, Jeffrey C. Perry R. Cook | | | | | | | | FILINGS |
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| | | | System and Method with Seed/Join Mechanic | | Stobodien, Andrea Smith, Jeffrey C | | | | | | | | 31-21 |
| | | | GCCCACITO (CIECTORICE | | Perry R. Gook | | | | | | | | |
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| | | | VOCAL CAPTURE APPLICATIONS | | Gook, Perry R | | | | | | | | |
| | | | Constant NOTES | | | | | | | | | | |
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