

## TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

ETAS ID: TM563916

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT		
<b>NATURE OF CONVEYANCE:</b>	SECURITY INTEREST		
<b>CONVEYING PARTY DATA</b>			
<b>Name</b>	<b>Formerly</b>	<b>Execution Date</b>	<b>Entity Type</b>
SMULE, INC.		02/21/2020	Corporation: DELAWARE
<b>RECEIVING PARTY DATA</b>			
<b>Name:</b>	WESTERN ALLIANCE BANK		
<b>Street Address:</b>	55 ALMADEN BOULEVARD, SUITE 100		
<b>City:</b>	SAN JOSE		
<b>State/Country:</b>	CALIFORNIA		
<b>Postal Code:</b>	95113		
<b>Entity Type:</b>	Corporation: ARIZONA		
<b>PROPERTY NUMBERS Total: 11</b>			
<b>Property Type</b>	<b>Number</b>	<b>Word Mark</b>	
<b>Serial Number:</b>	87806864	LET'S MUSIC TOGETHER	
<b>Registration Number:</b>	5962611	ALONE, IT'S MUSIC. TOGETHER, IT'S MAGIC.	
<b>Registration Number:</b>	4210527	AUTORAP	
<b>Registration Number:</b>	4867515	CONNECTING THE WORLD THROUGH MUSIC	
<b>Registration Number:</b>	4469932	GUITAR! BY SMULE	
<b>Registration Number:</b>	5823143	LIVEJAM	
<b>Registration Number:</b>	4157876	MADPAD	
<b>Registration Number:</b>	3996521	MAGIC PIANO	
<b>Registration Number:</b>	4193535	REMIX YOUR LIFE	
<b>Registration Number:</b>	3719489	SMULE	
<b>Registration Number:</b>	5627894	SMULE	
<b>CORRESPONDENCE DATA</b>			
<b>Fax Number:</b>	8585506420		
<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>	858-550-6433		
<b>Email:</b>	jmfitzpatrick@cooley.com		
<b>Correspondent Name:</b>	JENNIFER FITZPATRICK		
<b>Address Line 1:</b>	C/O COOLEY LLP		
<b>Address Line 2:</b>	4401 EASTGATE MALL		

CH \$290.00 87806864

TRADEMARK

<b>Address Line 4:</b>	SAN DIEGO, CALIFORNIA 92121
<b>ATTORNEY DOCKET NUMBER:</b>	305983-1172
<b>NAME OF SUBMITTER:</b>	JENNIFER FITZPATRICK
<b>SIGNATURE:</b>	/JENNIFER FITZPATRICK/
<b>DATE SIGNED:</b>	02/26/2020
<b>Total Attachments: 18</b> source=IPSA - Smule#page1.tif source=IPSA - Smule#page2.tif source=IPSA - Smule#page3.tif source=IPSA - Smule#page4.tif source=IPSA - Smule#page5.tif source=IPSA - Smule#page6.tif source=IPSA - Smule#page7.tif source=IPSA - Smule#page8.tif source=IPSA - Smule#page9.tif source=IPSA - Smule#page10.tif source=IPSA - Smule#page11.tif source=IPSA - Smule#page12.tif source=IPSA - Smule#page13.tif source=IPSA - Smule#page14.tif source=IPSA - Smule#page15.tif source=IPSA - Smule#page16.tif source=IPSA - Smule#page17.tif source=IPSA - Smule#page18.tif	

## INTELLECTUAL PROPERTY SECURITY AGREEMENT

This **INTELLECTUAL PROPERTY SECURITY AGREEMENT**, dated as of February 21, 2020 (the "Agreement") between **WESTERN ALLIANCE BANK**, an Arizona corporation ("Lender") and Smule, Inc. ("Grantor") is made with reference to the Loan and Security Agreement, dated as of March 13, 2017 (as amended from time to time, the "Loan Agreement"), between Lender and Grantor. Terms defined in the Loan Agreement have the same meaning when used in this Agreement.

For good and valuable consideration, receipt of which is hereby acknowledged, Grantor hereby covenants and agrees as follows:

To secure the Obligations under the Loan Agreement, Grantor grants to Lender a security interest in all right, title, and interest of Grantor in any of the following, whether now existing or hereafter acquired or created in any and all of the following property (collectively, the "Intellectual Property Collateral"):

(a) copyright rights, copyright applications, copyright registrations and like protections in each work or authorship and derivative work thereof, whether published or unpublished and whether or not the same also constitutes a trade secret, now or hereafter existing, created, acquired or held (collectively, the "Copyrights"), including the Copyrights described in Exhibit A;

(b) trademark and servicemark rights, whether registered or not, applications to register and registrations of the same and like protections, and the entire goodwill of the business of Grantor connected with and symbolized by such trademarks (collectively, the "Trademarks"), including the Trademarks described in Exhibit B;

(c) patents, patent applications and like protections including without limitation improvements, divisions, continuations, renewals, reissues, extensions and continuations-in-part of the same (collectively, the "Patents"), including the Patents described in Exhibit C;

(d) mask work or similar rights available for the protection of semiconductor chips or other products (collectively, the "Mask Works");

(e) trade secrets, and any and all intellectual property rights in computer software and computer software products;

(f) design rights;

(g) claims for damages by way of past, present and future infringement of any of the rights included above, with the right, but not the obligation, to sue for and collect such damages for said use or infringement of the intellectual property rights identified above;

(h) licenses or other rights to use any of the Copyrights, Patents, Trademarks, or Mask Works, and all license fees and royalties arising from such use to the extent permitted by such license or rights;

(i) amendments, renewals and extensions of any of the Copyrights, Trademarks, Patents, or Mask Works; and

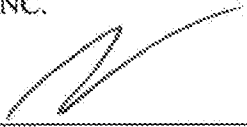
(j) proceeds and products of the foregoing, including without limitation all payments under insurance or any indemnity or warranty payable in respect of any of the foregoing.

The rights and remedies of Lender with respect to the security interests granted hereunder are in addition to those set forth in the Loan Agreement, and those which are now or hereafter available to Lender as a matter of law or equity. Each right, power and remedy of Lender provided for herein or in the Loan Agreement, or now or hereafter existing at law or in equity shall be cumulative and concurrent and shall be in addition to every right, power or remedy provided for herein, and the exercise by Lender of any one or more of such rights, powers or remedies does not preclude the simultaneous or later exercise by Lender of any other rights, powers or remedies. This Agreement and any rights granted hereunder shall terminate upon the termination of the Loan Agreement pursuant to its terms.

IN WITNESS WHEREOF, the parties have executed this Agreement as of the date first written above.

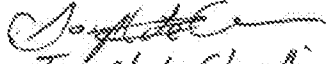
**GRANTOR:**

SMULE, INC.

By:  \_\_\_\_\_

Name: Jeffrey Smith \_\_\_\_\_

Title: CEO \_\_\_\_\_

  
Joseph LeChesillon, CAO

Address for Notices:  
Attn: 139 Townsend Street, Suite 300  
San Francisco, CA 94107  
Tel: \_\_\_\_\_  
Fax: \_\_\_\_\_

**LENDER:**

WESTERN ALLIANCE BANK, an Arizona corporation

By: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Address for Notices:  
Attn: 55 Almaden Boulevard, Suite 100  
San Jose, California 95113  
Tel: (408) 556-6501  
Fax: (408) 282-1681

IN WITNESS WHEREOF, the parties have executed this Agreement as of the date first written above.

**GRANTOR:**  
SMULE, INC.

**LENDER:**  
WESTERN ALLIANCE BANK, an Arizona corporation

By: \_\_\_\_\_

By:  \_\_\_\_\_

Name: \_\_\_\_\_

Name: Larry Sherman \_\_\_\_\_

Title: \_\_\_\_\_

Title: Senior Director \_\_\_\_\_

Address for Notices:  
Attn: 139 Townsend Street, Suite 300  
San Francisco, CA 94107  
Tel: \_\_\_\_\_  
Fax: \_\_\_\_\_

Address for Notices:  
Attn: 55 Almaden Boulevard, Suite 100  
San Jose, California 95113  
Tel: (408) 556-6501  
Fax: (408) 282-1681

**EXHIBIT A**  
**COPYRIGHTS**

**None.**

**EXHIBIT B**  
**TRADEMARKS**

Please see attached Schedule



Trademark	Country	Status	Serial No.	File Date	Reg. No.	Reg. Date	Classes
ALONE, IT'S MUSIC. TOGETHER, IT'S MAGIC.	Australia	Pending	1483125	May 14 2019			9, 42
ALONE, IT'S MUSIC. TOGETHER, IT'S MAGIC.	Canada	Pending	1963147	May 15 2019			
ALONE, IT'S MUSIC. TOGETHER, IT'S MAGIC.	Indonesia	Pending	1483125	May 14 2019			9, 42
ALONE, IT'S MUSIC. TOGETHER, IT'S MAGIC.	Japan	Pending	1483125	May 14 2019			9, 42
ALONE, IT'S MUSIC. TOGETHER, IT'S MAGIC.	Mexico	Pending	1483125	May 14 2019			9, 42
ALONE, IT'S MUSIC. TOGETHER, IT'S MAGIC.	United States of America	Registered	88/142,885	Oct 4 2018	5,962,611	Jan 14 2020	9, 41, 42, 45
ALONE, IT'S MUSIC. TOGETHER, IT'S MAGIC.	WIPO	Registered	1483125	May 14 2019	1483125	May 14 2019	9, 42
AUTORAP	Australia	Registered	1264493	May 22 2015	1264493	Jan 27 2016	9
AUTORAP	Brazil	Registered	909449376	May 28 2015	909449376	Jan 30 2018	9
AUTORAP	Canada	Registered	1730071	May 27 2015	TMA960095	Jan 12 2017	9
AUTORAP	EUTM	Registered	1264493	May 22 2015	1264493	Jul 22 2016	9
AUTORAP	India	Registered	1264493	May 22 2015	1264493	Feb 4 2017	9
AUTORAP	Japan	Registered	1264493	May 22 2015	1264493	Feb 10 2016	9
AUTORAP	Mexico	Registered	1264493	May 22 2015	1264493	May 22 2015	9
AUTORAP	New Zealand	Registered	1264493	May 22 2015	1264493	Feb 2 2016	9
AUTORAP	Philippines	Registered	1264493	May 22 2015	1264493	Apr 15 2016	9
AUTORAP	Switzerland	Registered	1264493	May 22 2015	1264493	Aug 22 2016	9
AUTORAP	United States of America	Registered	85/047,089	May 25 2010	4,210,527	Sep 18 2012	9
AUTORAP	WIPO	Registered	1264493	May 22 2015	1264493	May 22 2015	9
CONNECTING THE WORLD THROUGH MUSIC	Australia	Pending	1395808	Jan 2 2018			9
CONNECTING THE WORLD THROUGH MUSIC	India	Pending	1395808	Jan 2 2018			9

Trademark	Country	Status	Serial No.	File Date	Reg. No.	Reg. Date	Classes
CONNECTING THE WORLD THROUGH MUSIC	Indonesia	Registered	1395808	Jan 2 2018	1395808	Jan 15 2019	9
CONNECTING THE WORLD THROUGH MUSIC	United Kingdom	Registered	1395808	Jan 2 2018	1395808	Dec 11 2018	9
CONNECTING THE WORLD THROUGH MUSIC	United States of America	Registered	86/056,076	Sep 4 2013	4,867,515	Dec 8 2015	9
CONNECTING THE WORLD THROUGH MUSIC	WIPO	Registered	1395808	Jan 2 2018	1395808	Jan 2 2018	9
GIUITAR! BY SMULE	United States of America	Registered	85/946,110	May 30 2013	4,469,932	Jan 21 2014	9
LET'S MUSIC TOGETHER	United States of America	Pending	87/806,864	Feb 22 2018			9, 41, 42, 45
LIVEJAM	Australia	Registered	1452970	Jan 10 2019	1452970	Sep 9 2019	9
LIVEJAM	Canada	Pending	1940087	Jan 10 2019			9, 42
LIVEJAM	China	Registered	1452970	Jan 10 2019	1452970	Apr 25 2019	9
LIVEJAM	Indonesia	Pending	1452970	Jan 10 2019			9
LIVEJAM	Mexico	Pending	1452970	Jan 10 2019			9
LIVEJAM	New Zealand	Registered	1452970	Jan 10 2019	1452970	Jul 11 2019	9
LIVEJAM	Norway	Pending	1452970	Jan 10 2019			9
LIVEJAM	Philippines	Registered	1452970	Jan 10 2019	1452970	Oct 24 2019	9
LIVEJAM	Switzerland	Pending	1452970	Jan 10 2019			9
LIVEJAM	United States of America	Registered	88/032,209	Jul 10 2018	5,823,143	Jul 30 2019	9
LIVEJAM	WIPO	Registered	1452970	Jan 10 2019	1452970	Jan 10 2019	9
MADPAD	United States of America	Registered	85/462,584	Nov 2 2011	4,157,876	Jun 12 2012	9
MAGIC PIANO	Australia	Registered	1260840	May 22 2015	1260840	Jan 15 2016	9
MAGIC PIANO	Brazil	Registered	909449422	May 28 2015	909449422	Jan 30 2018	9
MAGIC PIANO	Canada	Registered	1730073	May 27 2015	TMA969323	Apr 27 2017	9
MAGIC PIANO	China	Registered	1260840	May 22 2015	1260840	Jun 6 2017	9

Trademark	Country	Status	Serial No.	File Date	Reg. No.	Reg. Date	Classes
MAGIC PIANO	EUTM	Registered	1260840	May 22 2015	1260840	Jun 15 2016	9
MAGIC PIANO	Japan	Registered	1260840	May 22 2015	1260840	Jan 28 2016	9
MAGIC PIANO	Mexico	Registered	1260840	May 22 2015	1260840	Jul 19 2016	9
MAGIC PIANO	New Zealand	Registered	1260840	May 22 2015	1260840	Jan 6 2016	9
MAGIC PIANO	Norway	Registered	1260840	May 22 2015	1260840	Mar 18 2016	9
MAGIC PIANO	Philippines	Registered	1260840	May 22 2015	1260840	Oct 8 2015	9
MAGIC PIANO	Republic of Korea (South)	Registered	1260840	May 22 2015	1260840	Jun 17 2016	9
MAGIC PIANO	Switzerland	Registered	1260840	May 22 2015	1260840	Aug 4 2016	9
MAGIC PIANO	United States of America	Registered	85/126,165	Sep 9 2010	3,996,521	Jul 19 2011	9
MAGIC PIANO	WIPO	Registered	1260840	May 22 2015	1260840	Aug 13 2015	9
REMIX YOUR LIFE	United States of America	Registered	85/462,610	Nov 2 2011	4,193,535	Aug 21 2012	9
SMULE	Australia	Registered	991513	Dec 30 2008	991513	Oct 8 2009	9
SMULE	Bahrain	Registered	991513	Dec 30 2008	991513	Feb 26 2009	9
SMULE	Brazil	Registered	909449473	May 28 2015	909449473	Jan 30 2018	9
SMULE	Canada	Registered	1730075	May 27 2015	TMA958501	Dec 20 2016	0
SMULE	China	Registered	991513	Dec 30 2008	991513	Jun 14 2017	9
SMULE	China	Registered	991513	Dec 30 2008	991513	Jun 14 2017	9
SMULE	Croatia	Registered	991513	Dec 30 2008	991513	Feb 26 2009	9
SMULE	Democratic People's Republic of Korea (North)	Registered	991513	Dec 30 2008	991513	Jan 30 2010	9
SMULE	EUTM	Registered	991513	Dec 30 2008	991513	Jan 10 2010	9
SMULE	Georgia	Registered	991513	Dec 30 2008	991513	Mar 30 2010	9
SMULE	Iceland	Registered	991513	Dec 30 2008	991513	Feb 26 2009	9
SMULE	India	Registered	1264492	May 22 2015	1264492	Feb 4 2017	9

Trademark	Country	Status	Serial No.	File Date	Reg. No.	Reg. Date	Classes
SMULE	Indonesia	Pending	991513	Dec 30 2008			9
SMULE	Iran	Registered	991513	Dec 30 2008	991513	Feb 26 2009	9
SMULE	Japan	Registered	991513	Dec 30 2008	991513	May 27 2010	9
SMULE	Liechtenstein	Registered	991513	Dec 30 2008	991513	Feb 26 2009	9
SMULE	Macedonia	Registered	991513	Dec 30 2008	991513	Feb 26 2009	9
SMULE	Mexico	Registered	1264492	May 22 2015	1264492	Jul 17 2017	9
SMULE	Monaco	Registered	991513	Dec 30 2008	991513	Feb 26 2009	9
SMULE	Mongolia	Registered	991513	Dec 30 2008	991513	Feb 26 2009	9
SMULE	Norway	Registered	991513	Dec 30 2008	991513	Jul 29 2009	9
SMULE	Oman	Registered	991513	Dec 30 2008	991513	Feb 26 2009	9
SMULE	Philippines	Registered	1264492	May 22 2015	1264492	Apr 15 2016	9
SMULE	Russian Federation	Registered	991513	Dec 30 2008	991513	Jan 27 2010	9
SMULE	Serbia	Registered	991513	Dec 30 2008	991513	Feb 26 2009	9
SMULE	Singapore	Registered	991513	Dec 30 2008	991513	May 21 2009	9
SMULE	Switzerland	Registered	991513	Dec 30 2008	991513	Feb 26 2009	9
SMULE	Turkey	Registered	991513	Dec 30 2008	991513	Feb 10 2010	9
SMULE	Ukraine	Registered	991513	Dec 30 2008	991513	Feb 26 2009	9
SMULE	United States of America	Registered	77/513,478	Jul 2 2008	3,719,489	Dec 1 2009	9
SMULE	United States of America	Registered	87/930,113	May 21 2018	5,627,894	Dec 11 2018	41, 42, 45
SMULE	Vietnam	Registered	991513	Dec 30 2008	991513	Feb 26 2009	9
SMULE	WIPO	Registered	1264492	May 22 2015	1264492	May 22 2015	9
SMULE	WIPO	Registered	991513	Dec 30 2008	991513	Dec 30 2008	9

**EXHIBIT C**

**PATENTS**

Please see attached Schedule

Summary Statistics
73 Issues (U.S. foreign and design registrations)
26 Currently Pending (U.S. foreign)
5 Allowed (U.S. and foreign) (Included in "Currently Pending")
0 New Filings (U.S. Prov. and foreign filings in 2020)

Reference #	Prior Reference	CTY	Title	Type	Inventor Name(s) Combined	Serial #	Filed Date	Priority Date	Patent #	Issue Date	Status
50342.0001	140-0001-US	US	System And Method For Communication Between Mobile Devices Using Digital/Acoustic Techniques	UTL	Cook, Perry R.	12/593795	9/9/09	9/3/08	6793473	6/10/14	ISSUED
50342.0001U/S02	50342.0007	US	System And Method For Communication Between Mobile Devices Using Digital/Acoustic Techniques	UTL	Cook, Perry R.	14/291406	6/3/14	9/3/08	9063451	7/14/15	ISSUED
50342.0001U/S03	50342.0007U/S03	US	System And Method For Communication Between Mobile Devices Using Digital/Acoustic Techniques	UTL	Cook, Perry R.	14/752265	9/29/15	9/3/08	8699208	2/16/17	ISSUED
50342.0001U/S04	50342.0007U/S04	US	System And Method For Communication Between Mobile Devices Using Digital/Acoustic Techniques	UTL	Cook, Perry R.	15/467292	2/13/17	9/3/08	10136620	10/16/18	ISSUED
50342.00012	140-0007-US	US	System And Method For Capture And Rendering Of Performance On Synthetic Musical Instrument	UTL	Salazar, Spencer Wang, Ge Cook, Perry R.	12/612500	11/4/09	11/4/09	8222507	7/17/12	ISSUED
50342.00013	140-0007-1US	US	System And Method For Capture And Rendering Of Performance On Synthetic Musical Instrument	UTL	Salazar, Spencer Wang, Ge Cook, Perry R.	13/32321	6/25/12	11/4/09	8686276	4/1/14	ISSUED
50342.00014	140-0008-US	US	Continuous Pitch-Corrected Vocal Capture Device Cooperative With Content Server For Backing Track Mix	UTL	Cook, Perry R. Salazar, Spencer Flebrink, Rebecca A. Wang, Ge Ljungstrom, Mattias Smith, Jeffrey C.	12/619131	9/4/10	12/15/09	9066797	6/19/15	ISSUED
50342.00014U/S02		US	Continuous Pitch-Corrected Vocal Capture Device Cooperative With Content Server For Backing Track Mix	UTL	Cook, Perry R. Salazar, Spencer Flebrink, Rebecca A. Wang, Ge Ljungstrom, Mattias Smith, Jeffrey C.	14/700020	5/22/15	12/15/09	9754971	9/5/17	ISSUED
50342.00014U/S03		US	Continuous Pitch-Corrected Vocal Capture Device Cooperative With Content Server For Backing Track Mix	UTL	Cook, Perry R. Salazar, Spencer Flebrink, Rebecca A. Wang, Ge Ljungstrom, Mattias Smith, Jeffrey C.	15/093498	9/1/17	12/15/09			PENDING
50342.00015	140-0008-AU	AU	Continuous Pitch-Corrected Vocal Capture Device Cooperative With Content Server	UTL	Wang, Ge Salazar, Spencer Flebrink, Rebecca A. Smith, Jeffrey C. Ljungstrom, Mattias Cook, Perry R.	201033294	12/13/10	12/15/09	201333294	10/16/14	ISSUED
50342.00016	140-0008-CA	CA	Continuous Pitch-Corrected Vocal Capture Device Cooperative With Content Server	UTL	Wang, Ge Salazar, Spencer Flebrink, Rebecca A. Smith, Jeffrey C. Ljungstrom, Mattias Cook, Perry R.	278621	12/13/10	12/15/09	278621	8/12/16	ISSUED
50342.00017	140-0008-GB	GB	Continuous Pitch-Corrected Vocal Capture Device Cooperative With Content Server	UTL	Wang, Ge Salazar, Spencer Flebrink, Rebecca A. Smith, Jeffrey C. Ljungstrom, Mattias Cook, Perry R.	12116768	12/13/10	12/15/09	2488867	5/31/17	ISSUED
50342.00029U/S01	140-0010	US	Pitch-Correction Of Vocal Performance In Accord With Score-Coded Harmonies	UTL	Cook, Perry R. Lazier, Ari Lieber, Tom Kirk, Turner Evan	13/065413	4/12/11	4/12/10	8668411	10/21/14	ISSUED
50342.00029U/S02	140-0010-1	US	Pitch-Correction Of Vocal Performance In Accord With Score-Coded Harmonies	UTL	Cook, Perry R. Lazier, Ari Lieber, Tom Kirk, Turner Evan	14/517947	10/17/14	4/12/10	9662742	12/29/17	ISSUED
50342.00029U/S03			Pitch-Correction Of Vocal Performance In Accord With Score-Coded Harmonies	UTL	Cook, Perry R. Lazier, Ari Lieber, Tom Kirk, Turner Evan	15/949194	12/20/17	4/12/10			PENDING
50342.00029CA01	140-0010-CA	CA	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	279621	4/12/11	4/12/10			PENDING
50342.00029GB01	140-0010-GB1	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	12183653	4/12/11	4/12/10	2493470	8/7/17	ISSUED
50342.00029GB02	140-0010-GB2	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	1706952	4/12/11	4/12/10	2546886	10/11/17	ISSUED
50342.00029GB03	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	1706860	4/12/11	4/12/10	2546887	3/7/18	ISSUED
50342.00029HK02		HK	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	1/29/18	4/12/10	1242465	9/13/19	ISSUED

50342.00029/H03		HK	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	1/29/18	4/12/10	1242037	9/5/19	ISSUED
50342.00028	140-0012 US	US	Coordinating And Mixing Vocals Captured From Geographically Distributed Performers	UTL	Cook, Perry R. Lazier, Ari Lieber, Tom Kirk, Turner Evan	13/05914	4/12/11	4/12/10	8863629	3/17/15	ISSUED
50342.00028/S02		US	Coordinating and Mixing Vocals Captured from Geographically Distributed Performers	UTL	Cook, Perry R. Lazier, Ari Lieber, Tom Kirk, Turner Evan	14/56344	3/12/15	4/12/10	8721579	9/1/17	ISSUED
50342.00028/S03		US	Coordinating And Mixing Vocals Captured From Geographically Distributed Performers	UTL	Cook, Perry R. Lazier, Ari Lieber, Tom Kirk, Turner Evan	15/64459	7/31/17	4/12/10	1036666	9/7/19	ISSUED
50342.00028/S04		US	Coordinating And Mixing Vocals Captured From Geographically Distributed Performers	UTL	Cook, Perry R. Lazier, Ari Lieber, Tom Kirk, Turner Evan	16/56158	8/29/19	4/12/10			PENDING
50342.00029	140-0013 US	US	Computational Techniques For Continuous Pitch Correction And Harmony Generation	UTL	Cook, Perry R. Lazier, Ari Lieber, Tom	13/055415	4/12/11	4/12/10	8663384	3/31/15	ISSUED
50342.00032	140-0015 US	US	Continuous Score-Coded Pitch Correction	UTL	Cook, Perry R. Salazar, Spencer Flebrink, Rebecca A. Wang, Ge Ljungstrom, Mattias Smith, Jeffrey C.	12/81032	9/4/13	4/12/10	947386	9/29/15	ISSUED
50342.00032/S02		US	Continuous Score-Coded Pitch Correction	UTL	Cook, Perry R. Salazar, Spencer Flebrink, Rebecca A. Wang, Ge Ljungstrom, Mattias Smith, Jeffrey C.	14/56152	9/16/15	4/12/10	9754972	9/5/17	ISSUED
50342.00032/S03		US	Continuous Score-Coded Pitch Correction	UTL	Cook, Perry R. Salazar, Spencer Flebrink, Rebecca A. Wang, Ge Ljungstrom, Mattias Smith, Jeffrey C.	15/64461	9/1/17	4/12/10			PENDING
50342.00033	140-0016 US	US	World Stage For Pitch-Corrected Vocal Performances	UTL	Wang, Ge Salazar, Spencer Flebrink, Rebecca A. Ljungstrom, Mattias Smith, Jeffrey C. Yang, Jeanne	12/876133	9/4/10	12/15/09	866263	3/25/14	ISSUED
50342.00034	140-0017 US	US	System And Method For Capture And Rendering Of Performance Of Synthetic String Instrument	UTL	Wang, Ge Yang, Jeanne Oh, Jaun Lieber, Tom	13/22773	11/9/11	11/9/10	6772621	7/8/14	ISSUED
50342.00034/S02	50342.00081	US	System And Method For Capture And Rendering Of Performance On Synthetic String Instrument	UTL	Wang, Ge Yang, Jeanne Oh, Jaun Lieber, Tom	14/22987	7/2/14	11/9/10	960180	6/2/17	ISSUED
50342.00034/S03	50342.00081/S03	US	System And Method For Capture And Rendering Of Performance On Synthetic String Instrument	UTL	Wang, Ge Yang, Jeanne Oh, Jaun Lieber, Tom	15/26932	5/1/17	11/9/10	10193426	12/22/18	ISSUED
50342.00037	140-0018 US	US	Automatic Sampling For Percussion Type Instrument With Crowd-Sourced Content Sourcing And Distribution	UTL	Krupa, Nicholas M. Wang, Ge Cook, Perry R.	13/807453	9/7/12	9/7/11	9176910	11/3/15	ISSUED
50342.00038	140-0019 US	US	Synthetic Musical Instrument With Performance And/Or Skill-Adaptive Score Tempo	UTL	Hamilton, Robert Chavchery, Arman S. Lazier, Ari Smith, Jeffrey C.	13/96439	10/31/12	10/31/11	908280	2/14/15	ISSUED
50342.00038/S02		US	Synthetic Musical Instrument With Performance - And/Or Skill-Adaptive Score Tempo	UTL	Hamilton, Robert Lazier, Ari Smith, Jeffrey C. Chavchery, Arman	15/67666	7/3/15	10/31/11	9620096	4/11/17	ISSUED
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 Krupa, Nicholas M. Wang, Ge	13/715820	12/14/12	12/14/11	9035162	5/19/15	ISSUED
50342.00046	140-0021 US	US	Automatic Conversion Of Speech Into Song, Rap Or Other Audible Expression Having Target Meter Or Rhythm	UTL	Chordet, Prang P. Godfrey, Mark T. Rae, Alexander M.D. Gupta, Prerna Cook, Perry R.	13/99356	3/29/13	3/29/12	9924330	4/28/16	ISSUED
50342.00046/S02	140-0022 US 50342.00069	US	Automatic Conversion Of Speech Into Song, Rap Or Other Audible Expression Having Target Meter Or Rhythm	UTL	Gupta, Prerna Cook, Perry R. Chordet, Prang Godfrey, Mark Rae, Alexander	13/91099	9/5/13	3/29/12	968959	5/30/17	ISSUED
50342.00046/S03	50342.00069/S02	US	Automatic Conversion Of Speech Into Song, Rap Or Other Audible Expression Having Target Meter Or Rhythm	UTL	Chordet, Prang Godfrey, Mark Rae, Alexander Gupta, Prerna Cook, Perry R.	15/806111	5/28/17	3/29/12	1022067	5/14/19	ISSUED
50342.00046/S04	50342.00069/S03	US	Automatic Conversion Of Speech Into Song, Rap Or Other Audible Expression Having Target Meter Or Rhythm	UTL	Chordet, Prang Godfrey, Mark Rae, Alexander Gupta, Prerna Cook, Perry R.	16/41030	5/13/19	3/29/12			PENDING
50342.00063		FR	Automatic Conversion Of Speech Into Song, Rap Or Other Audible Expression Having Target Meter Or Rhythm	UTL	Godfrey, Mark	204-709460	3/29/13	3/28/12			ALLOWED
50342.00064		JP	Automatic Conversion Of Speech Into Song, Rap Or Other Audible Expression Having Target Meter Or Rhythm	UTL	Rae, Alexander	2015-503981	3/29/13	3/29/12	9298838	2/18/16	ISSUED
50342.00069/S01	140-0028 US	US	Automatic Estimation Of Latency For Synchronization Of Recordings In Vocal Capture Applications	UTL	Gupta, Prerna	14/216136	3/17/14	3/15/13	941230	8/9/16	ISSUED

50342.00068US02		US	Crowd-Sourced Device Latency Estimation For Synchronization Of Recordings In Vocal Capture Applications	UTL	Cook, Perry R.	15/178234	6/9/16	3/15/13	10284965	5/7/19	ISSUED
50342.00068US03		US	Crowd-Sourced Device Latency Estimation For Synchronization Of Recordings In Vocal Capture Applications	UTL	Chauchary, Amanda Steinwedel, David Shimmin, John Jabr, Lance Leisikow, Rancal	16/403699	5/6/19	3/15/13			PENDING
50342.00068		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 Effects (Schedule(s))	UTL	Yang, Jeannie Krug, Nicholas M. Thompson, Gregory C. Cook, Perry R.	12/905944	8/6/13	6/7/12	9601127	2/21/17	ISSUED
50342.00068US02		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 Effects (Schedule(s))	UTL	Yang, Jeannie Krug, Nicholas M. Thompson, Gregory C. Cook, Perry R.	15/463876	3/20/17	4/12/10	10228662	3/12/19	ISSUED
50342.00068US03		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 Effects (Schedule(s))	UTL	Yang, Jeannie Krug, Nicholas M. Thompson, Gregory C. Cook, Perry R.	16/250391	3/8/19	4/12/10			PENDING
50342.00070JP01		JP	Karaoke System And Method With Real-Time Continuous Pitch Correction Of Vocal Performance And Dry Vocal Capture For Subsequent Re-Rendering	UTL	Yang, Jeannie Krug, Nicholas M. Thompson, Gregory C. Cook, Perry R.	2015-528980	8/6/13	6/7/12	6371283	7/23/16	ISSUED
50342.00070KR01		KR	Karaoke System And Method With Real-Time Continuous Pitch Correction Of Vocal Performance And Dry Vocal Capture For Subsequent Re-Rendering	UTL	Yang, Jeannie Krug, Nicholas M. Thompson, Gregory C. Cook, Perry R.	2015-7005886	8/6/13	6/7/12			PENDING
50342.00073		US	Audiovisual Capture And Sharing Framework With Coordinated User-Selectable Audio And Video Effects Filters	UTL	Chordia, Parag P. Cook, Perry R. Godfrey, Mark T. Gupta, Prerna Krug, Nicholas M. Leisikow, Rancal J. Rao, Alexander M.D. Simon, Ian S.	14/104616	12/12/13	12/12/12	9459768	10/4/16	ISSUED
50342.00073US02		US	Audiovisual Capture And Sharing Framework With Coordinated, User-Selectable Audio And Video Effects Filters	UTL	Chordia, Parag P. Cook, Perry R. Godfrey, Mark T. Gupta, Prerna Krug, Nicholas M. Leisikow, Rancal J. Rao, Alexander M.D. Simon, Ian S.	15/254229	10/3/16	12/12/12			ALLOWED
50342.00079US01		US	Computationally-Assisted Musical Sequencing And/Or Composition Techniques For Social Music Challenge Or Competition	UTL	Leisikow, Rancal Godfrey, Mark Simon, Ian S. Yang, Jeannie Allen, Michael W.	14/267826	12/31/14	12/31/13	10262944	8/16/16	ISSUED
50342.00079US02		US	Computationally-Assisted Musical Sequencing And/Or Composition Techniques For Social Music Challenge Or Competition	UTL	Leisikow, Rancal Godfrey, Mark Simon, Ian S. Yang, Jeannie Allen, Michael W.	16/284273	4/15/19	12/31/13			PENDING
50342.00079US01		US	Score Directed String Retuning And Gesture Cueing In Synthetic Multi-String Musical Instrument	UTL	Godfrey, Mark	14/265391	5/22/14	9/22/13	9472178	10/18/16	ISSUED
50342.00079US01		US	Coordinated Audiovisual Montage From Selected Crowd-Sourced Content With Alignment To Audio Baseline	UTL	Simon, Ian S.	14/739910	6/19/15	6/13/14			PENDING
50342.00079WO01		WO	Coordinated Audiovisual Montage From Selected Crowd-Sourced Content With Alignment To Audio Baseline	UTL	Yang, Jeannie	PC1/US2015/058690	6/19/15	6/13/14			EXPIRED
50342.00080US01		US	Coordinating And Mixing Audiovisual Content Captured From Geographically Distributed Performers	UTL	Allen, Michael W.	14/926727	10/30/15	10/30/14	9666731	1/9/16	ISSUED
50342.00080WO01		WO	Coordinating And Mixing Audiovisual Content Captured From Geographically Distributed Performers	UTL	Godfrey, Mark T. Cook, Perry R.	PC1/US2015/068373	10/30/15	10/30/14			EXPIRED
50342.00080US01		US	Coordinating And Mixing Audiovisual Content Captured From Geographically Distributed Performers	UTL	Godfrey, Mark T. Cook, Perry R.	14/926727	10/30/15		9666731	1/9/16	ISSUED
50342.00080US02		US	Coordinating And Mixing Audiovisual Content Captured From Geographically Distributed Performers	UTL	Godfrey, Mark T. Cook, Perry R.	15/964819	1/8/16	4/12/11			ALLOWED
50342.00080US01		US	Automated Generation Of Coordinated Audiovisual Work Based On Content Captured Geographically Distributed Performers	UTL	Sung, Kevin Malcover, Jon Cook, Perry R. Kim, Bone Shimmin, John Yang, Jeannie	15/179041	6/3/16	9/3/15	9911403	3/9/18	ISSUED



50342.00067U502	US	Automatic Generation Of Coordinated Audiovisual Work Based On Content Captured From Geographically Distributed Performers	UTL	Sung, Kevin; Mallove, Jon; Cook, Perry R.; Kim, Bong; Shimmin, John; Yang, Jeannie	15/910946	3/2/16	9/3/15	1042263	9/24/19	GRANTED
50342.00067U503	US	Automatic Generation Of Coordinated Audiovisual Work Based On Content Captured From Geographically Distributed Performers	UTL	Sung, Kevin; Mallove, Jon; Cook, Perry R.; Kim, Bong; Shimmin, John; Yang, Jeannie	16/374971	9/18/19	9/3/15			PENDING
50342.00067W001	WO	Automatic Generation Of Coordinated Audiovisual Work Based On Content Captured From Geographically Distributed Performers	UTL	Mallove, Jon	PCT/US2019/056810	9/3/16	9/3/15			EXPIRED
50342.00067A001	AU	Automatic Generation Of Coordinated Audiovisual Work Based On Content Captured From Geographically Distributed Performers		Cook, Perry R.	201520362	9/3/16	9/3/15			PENDING
50342.00067CN01	CN	Automatic Generation Of Coordinated Audiovisual Work Based On Content Captured From Geographically Distributed Performers		Kim, Bong	2016800226519	9/3/16	9/3/15			PENDING
50342.00067GB01	GB	Automatic Generation Of Coordinated Audiovisual Work Based On Content Captured From Geographically Distributed Performers		Shimmin, John	17186247	9/3/16	9/3/15			PENDING
50342.00067K01	KR	Automatic Generation Of Coordinated Audiovisual Work Based On Content Captured From Geographically Distributed Performers		Yang, Jeannie	161144361	11/12/16	9/3/15			PENDING
50342.00067KP01	KP	Automatic Generation Of Coordinated Audiovisual Work Based On Content Captured From Geographically Distributed Performers		Sung, Kevin; Mallove, Jon; Cook, Perry R.; Kim, Bong; Shimmin, John; Yang, Jeannie	2017-7034951	6/3/16	9/3/15			PENDING
50342.00089U01	US	Synthetic Musical Instrument With Touch Dynamics And/Or Expressiveness Control	UTL	Cook, Perry R.; Yang, Jeannie; Woo, Yuning; Shimmin, John; Leistikow, Randal; Berger, Michael; Smith, Jeff	15/275807	9/29/16	10/31/11	9761209	9/12/17	ISSUED
50342.00089U02	US	Synthetic Musical Instrument With Touch Dynamics And/Or Expressiveness Control	UTL	Cook, Perry R.; Yang, Jeannie; Woo, Yuning; Shimmin, John; Leistikow, Randal; Berger, Michael; Smith, Jeff	15/697877	9/7/17	10/31/11			ABANDONED
50342.00089W001	WO	Synthetic Musical Instrument With Touch Dynamics And/Or Expressiveness Control	UTL	Cook, Perry R.; Yang, Jeannie; Woo, Yur; Shimmin, John; Berger, Michael; Leistikow, Randal; Smith, Jeff	PCT/US2016/053731	9/29/16	9/24/15			EXPIRED
50342.00090U02	US	Display Screen or Portion Thereof with Animated Graphical User Interface	DES	Hersh, Benjamin; Shimmin, John; Yang, Jeannie; Cook, Perry R.	29/566061	5/29/16	10/8/15	D830267	1/29/16	ISSUED
50342.00090U03	US	Display Screen or Portion Thereof with Animated Graphical User Interface	DES	Hersh, Benjamin; Shimmin, John; Yang, Jeannie; Cook, Perry R.	29/566062	5/29/16	10/8/15	D830791	10/24/17	ISSUED
50342.00090U04	US	Display Screen Or Portion Thereof With Animated Graphical User Interface	DES	Hersh, Benjamin; Shimmin, John; Yang, Jeannie; Cook, Perry R.	29/566236	5/27/16	10/8/15	D836528	12/19/17	ISSUED
50342.00090U05	US	Display Screen Or Portion Thereof With Animated Graphical User Interface	DES	Hersh, Benjamin; Shimmin, John; Yang, Jeannie; Cook, Perry R.	29/566422	5/27/16	10/8/15	D830036	12/28/17	ISSUED
50342.00090U06	US	Animated Graphical User Interface For A Display Screen Or Portion Thereof	DES	Hersh, Benjamin; Shimmin, John; Yang, Jeannie; Cook, Perry R.	29/566249	5/27/16	10/8/15	D836528	12/19/17	ISSUED
50342.00090U07	US	Display Screen or Portion Thereof with Animated Graphical User Interface	DES	Hersh, Benjamin; Shimmin, John; Yang, Jeannie; Cook, Perry R.	29/566255	5/27/16	10/8/15	D830761	1/9/16	ISSUED
50342.00090U08	US	Display Screen Or Portion Thereof With Animated Graphical User Interface	DES	Hersh, Benjamin; Shimmin, John; Yang, Jeannie; Cook, Perry R.	29/566370	5/29/16	10/8/15	D831364	10/31/17	ISSUED
50342.00090U09	US	Graphical User Interface For A Display Screen Or Portion Thereof	DES	Hersh, Benjamin; Shimmin, John; Yang, Jeannie; Cook, Perry R.	29/566074	5/29/16	10/8/15	D833245	11/21/17	ISSUED
50342.00090U10	US	Display Screen or Portion Thereof with Graphical User Interface	DES	Hersh, Benjamin; Shimmin, John; Yang, Jeannie; Cook, Perry R.	29/566079	5/29/16	10/8/15	D831566	11/7/17	ISSUED
50342.00090U11	US	Display Screen or Portion Thereof with Animated Graphical User Interface	DES	Hersh, Benjamin; Shimmin, John; Yang, Jeannie; Cook, Perry R.	29/566085	5/28/16	10/8/15	D830752	10/26/17	ISSUED
50342.00090U12	US	Animated Graphical User Interface For A Display Screen Or Portion Thereof	DES	Hersh, Benjamin; Shimmin, John; Yang, Jeannie; Cook, Perry R.	29/566366	5/29/16	10/8/15	D830753	10/26/17	ISSUED
50342.00090U13	US	Display Screen Or Portion Thereof With Graphical User Interface	DES	Hersh, Benjamin; Shimmin, John; Yang, Jeannie; Cook, Perry R.	29/566265	5/27/16	10/8/15	D836640	12/19/17	ISSUED

50342.00060US14		US	Graphical User Interface For A Display Screen Or Portion Thereof	DES	Hersh, Benjamin Shimmin, John Yang, Jeannie Cook, Perry R.	29369299	4/27/16	10/9/15	D813266	3/20/16	ISSUED
50342.00060US15		US	Graphical User Interface For A Display Screen Or Portion Thereof	DES	Hersh, Benjamin Shimmin, John Yang, Jeannie Cook, Perry R.	29369279	4/27/16	10/9/15	D8132631	12/19/17	ISSUED
50342.00060US16		US	Graphical User Interface For A Display Screen Or Portion Thereof	DES	Hersh, Benjamin Shimmin, John Yang, Jeannie Cook, Perry R.	29369285	5/27/16	10/9/15	D813266	2/20/18	ISSUED
50342.00091US01		US	Audiovisual Media Application Platform with Wireless Handheld Audiovisual Input	UTL	Hersh, Benjamin Shimmin, John Yang, Jeannie Cook, Perry R.	15337866	10/28/16	10/28/15			ALLOWED
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.	15337891	10/28/16	10/28/15			PENDING
50342.00091WO01		WO	Audiovisual Media Application Platform, Wireless Handheld Audio Capture Device And Multi-Vocalist Methods Thereof	UTL	Hersh, Benjamin Shimmin, John Yang, Jeannie Cook, Perry R.	PC7/US2016/069531	10/28/16	10/28/15			EXPIRED
50342.00099US01		US	Score-Coding with Group-Pairs and Interface to Facilitate Crowd-Sourced Authorship Thereof	UTL	Berger, Michael Schaffer, Dean						CLOSED
50342.00099US01		US	Crowd-Sourced Technique For Pitch Track Generation	UTL	Sullivan, Stefan Shimmin, John Schaffer, Dean Cook, Perry R.	15649040	7/13/17	7/13/16	10460711	10/29/19	ALLOWED
50342.00099US02		US	Crowd-Sourced Technique For Pitch Track Generation	UTL	Sullivan, Stefan Shimmin, John Schaffer, Dean Cook, Perry R.	16966611	10/28/19				PENDING
50342.00099CN01		CN	Crowd-Sourced Technique For Pitch Track Generation		Sullivan, Stefan Shimmin, John Schaffer, Dean Cook, Perry R.	201780056045.2	7/13/17	7/13/16			ABANDONED
50342.00099EP01		EP	Crowd-Sourced Technique For Pitch Track Generation		Sullivan, Stefan Shimmin, John Schaffer, Dean Cook, Perry R.	17828471.7	2/13/19	7/13/16			ABANDONED
50342.00099IN01		IN	Crowd-Sourced Technique For Pitch Track Generation		Sullivan, Stefan Shimmin, John Schaffer, Dean Cook, Perry R.	201917006306	2/11/19	7/13/16			PENDING
50342.00099WO01		WO	Crowd-Sourced Technique for Pitch Track Generation	UTL	Sullivan, Stefan Shimmin, John Schaffer, Dean Cook, Perry R.	PC7/US2017/041962	7/13/17	7/13/16			EXPIRED
50342.00099US01		US	Musical Composition: Authoring Environment Integrated With Synthetic Musical Instrument	UTL	Espeleta, Charles Yang, Jeannie Cook, Perry R. Corral, Oscar Moody, Jonathan Xie, Ran Smith, Jeffrey C. Schaffer, Dean Li, Jinhua	15667372	8/2/17	8/2/16	10336606	7/2/18	ISSUED
50342.00099US02		US	Animated Graphical User Interface for a Display Screen or Portion Thereof	DES	Espeleta, Charles Yang, Jeannie Corral, Oscar Moody, Jonathan Xie, Ran Smith, Jeffrey C. Hamilton, Robert	29300448	4/12/17	8/2/16	D844684	4/2/19	ISSUED
50342.00099US03		US	Graphical User Interface for a Display Screen or Portion Thereof	DES	Espeleta, Charles Yang, Jeannie Corral, Oscar Moody, Jonathan Xie, Ran Smith, Jeffrey C. Hamilton, Robert	29300449	4/12/17	8/2/16	D845342	4/9/19	ISSUED
50342.00099US04		US	Animated Graphical User Interface for a Display Screen or Portion Thereof	DES	Espeleta, Charles Yang, Jeannie Corral, Oscar Moody, Jonathan Xie, Ran Smith, Jeffrey C. Hamilton, Robert	29300450	4/12/17	8/2/16	D844646	4/2/19	ISSUED
50342.00099US05		US	Graphical User Interface for a Display Screen or Portion Thereof	DES	Espeleta, Charles Yang, Jeannie Corral, Oscar Moody, Jonathan Xie, Ran Smith, Jeffrey C. Hamilton, Robert	29300452	4/12/17	8/2/16	D844665	4/2/19	ISSUED
50342.00099US06		US	Graphical User Interface for a Display Screen or Portion Thereof	DES	Espeleta, Charles Yang, Jeannie Corral, Oscar Moody, Jonathan Xie, Ran Smith, Jeffrey C. Hamilton, Robert	29300455	4/12/17	8/2/16	D844686	4/2/19	ISSUED
50342.00099US07		US	Graphical User Interface for a Display Screen or Portion Thereof	DES	Espeleta, Charles Yang, Jeannie Corral, Oscar Moody, Jonathan Xie, Ran Smith, Jeffrey C. Hamilton, Robert	29300456	4/12/17	8/2/16	D844667	4/2/19	ISSUED
50342.00099US08		US	Animated Graphical User Interface for a Display Screen or Portion Thereof	DES	Espeleta, Charles Yang, Jeannie Corral, Oscar Moody, Jonathan Xie, Ran Smith, Jeffrey C. Hamilton, Robert	29300458	4/12/17	8/2/16	D844647	4/2/19	ISSUED

50342.00068US9		US	Animated Graphical User Interface for a Display Screen or Portion Thereof	DES	Espeleta, Charles Yang Jeannie Corral, Oscar Moody, Jonathan Xie, Ran Smith, Jeffrey C. Hamilton, Robert	29/600460	4/12/17	9/2/16	D845319	4/9/19	ISSUED
50342.00068US10		US	Animated Graphical User Interface for a Display Screen or Portion Thereof	DES	Espeleta, Charles Yang Jeannie Corral, Oscar Moody, Jonathan Xie, Ran Smith, Jeffrey C. Hamilton, Robert	29/600461	4/12/17	9/2/16	D837246	1/1/19	ISSUED
50342.00068PV01		US	Audiovisual Collaboration Method with Latency Management for Wide Area Broadcast	PRV	Holmberg, Anton Hersh, Benjamin Yang Jeannie Cook, Perry R. Smith, Jeffrey C.	62/489810	4/3/17	4/3/17			EXPIRED
50342.00068PV02		US	Audiovisual Collaboration System and Method with Latency Management for Wide Area Broadcast and Social Media Type User Interface Mechanics	PRV	Holmberg, Anton Hersh, Benjamin Yang Jeannie Woo, Yuning Liang, Wang Cook, Perry R. Smith, Jeffrey C.	62/965727	6/15/18	6/15/18			EXPIRED
50342.00068US01		US	Audiovisual Collaboration Method with Latency Management for Wide Area Broadcast	UTIL	Holmberg, Anton Hersh, Benjamin Yang Jeannie Cook, Perry R. Smith, Jeffrey C.	15/944.537	4/3/18	4/3/17			PENDING
50342.00068US02		US	Audiovisual Collaboration System and Method with Latency Management for Wide Area Broadcast and Social Media Type User Interface Mechanics	UTIL	Holmberg, Anton Hersh, Benjamin Yang Jeannie Woo, Yuning Liang, Wang Cook, Perry R. Smith, Jeffrey C.	19/443022	6/12/19	9/15/18			PENDING
50342.00068US03		US									PROPOSED
50342.00068US04		US									PROPOSED
50342.00068PV02		PCT	Audiovisual Collaboration System and Method with Latency Management for Wide Area Broadcast and Social Media Type User Interface Mechanics	PCT	Holmberg, Anton Hersh, Benjamin Yang Jeannie Woo, Yuning Liang, Wang Cook, Perry R. Smith, Jeffrey C.	PCT/US2019/01479	6/12/18	6/15/18			PENDING
50342.00068PV01		PCT	Audiovisual Collaboration Method with Latency Management for Wide Area Broadcast	PCT	Hersh, Benjamin	PCT/US19/25367	4/3/18	4/3/17			EXPIRED
50342.00068CN01		CN	Audiovisual Collaboration Method with Latency Management for Wide Area Broadcast		Hersh, Benjamin	201880036724	4/3/18	4/3/17			PENDING
50342.00068EE01		EE	Audiovisual Collaboration Method with Latency Management for Wide Area Broadcast		Hersh, Benjamin	Awtg	4/3/18	4/3/17			PENDING
50342.00101US01		US	Audio-Visual Effects System for Augmentation of Captured Performance Based on Content Thereof	US	Yang Jeannie	16/107351	8/21/18	9/21/17			PENDING
50342.00101W001		PCT	Audio-Visual Effects System for Augmentation of Captured Performance Based on Content Thereof	PCT	Woo, Yuning	PCT/US2018/047325	8/21/18	9/21/18			PENDING
50342.00101PV01		US	Audio-Visual Effects System for Augmentation of Captured Performance Based on Emotional Content Thereof	PRV	Liang, Wang	62/548122	8/21/17	9/21/17			EXPIRED
50342.00104PV01		US	Non-Linear Media Segment Capture Techniques for Karaoke-Style Content	PRV	Cook, Perry R.	62/674460	9/21/18				EXPIRED
50342.00104PV02		US	Non-Linear Media Segment Capture And Edit Platform For Karaoke-Style Content And/Or Freeform Collaboration	PRV	Smith, Jeffrey C.	62/382128	9/23/18				EXPIRED
50342.00104PV03		US	Short-Seed Or Clip Generation For User Engagement In Vocal	PRV	Maldovar, Jon Shanwood, David Smith, Jeffrey C. Cook, Perry R.	62/981412	6/22/18				PENDING
50342.00104US01		US	Capture Applications	UTIL	Shanwood, David Stobodan, Andrea Cook, Perry R. Chi, Paul Smith, Jeffrey C.	16/416659	5/21/19	5/21/18			PENDING
50342.00104US02		US	Audiovisual Collaboration System and Method with Seed/Join Mechanic	UTIL	Shanwood, David Stobodan, Andrea Smith, Jeffrey C. Perry R. Cook	16/466520	7/1/19	6/23/18			PENDING
50342.00104W001		US	Non-Linear Media Segment Capture And Edit Platform For Karaoke-Style Content And/Or Freeform Collaboration	PCT	Shanwood, David Stobodan, Andrea Cook, Perry R. Chi, Paul Smith, Jeffrey C.	PCT/US2019/023308	5/21/19	9/21/18			PENDING
50342.00104W002		US	Audiovisual Collaboration System and Method with Seed/Join Mechanic	PCT	Shanwood, David Stobodan, Andrea Smith, Jeffrey C. Perry R. Cook	PCT/US19/01113	7/1/19	6/23/18			PENDING
50342.00108US01		US	Non-Linear Media Segment Capture Techniques and Graphical User Interfaces Thereof	UTIL	Shanwood, David Chi, Paul T. Stobodan, Andrea Cook, Perry R.	15/965519	5/21/18				ABANDONED
50342.00108US01		US	Selfie-Chat Capture Mechanism for Social Media (prov)	PRD	Cook, Perry R. (and others to be confirmed)						PROPOSED (CLAIMS IN 56PV02)
50342.00107US01		US	Audiovisual Collaboration with User Part Arbitration (prov)	PRO	Cook, Perry R. (and others to be confirmed)						PROPOSED (CLAIMS IN 56PV02)

50342.00108PV01		US	Augmented Reality Filters For Captured Audiovisual Performances	PRO	Steinweil, David Hainberg, Anton Villegas, Javier Chi, Paul T. Young, David E. Cook, Perry R.	52774954	1/23/19			EXPIRED
50342.00108VSD1		US	Augmented Reality Filters For Captured Audiovisual Performances	UTI	Steinweil, David Hainberg, Anton Villegas, Javier Chi, Paul T. Young, David E. Cook, Perry R.					PROPOSED (CLAIMS IN 108PV01)
50342.00108VSD2		US	Augmented Reality Filters For Captured Audiovisual Performances	UTI	Steinweil, David Hainberg, Anton Villegas, Javier Chi, Paul T. Young, David E. Cook, Perry R.					PROPOSED (CLAIMS IN 108PV01)
50342.00108VSD3		WO	Augmented Reality Filters For Captured Audiovisual Performances	PC1	Steinweil, David Hainberg, Anton Villegas, Javier Chi, Paul T. Young, David E. Cook, Perry R.	PC1/US2019064250	1/23/19			933021PC1 30 MO DEADLINE 4/3/20 AMENDMENT OF CLAIMS
50342.00108VSD3		US	Augmented Reality Filters For Captured Audiovisual Performances	UTI	Steinweil, David Hainberg, Anton Villegas, Javier Chi, Paul T. Young, David E. Cook, Perry R.					PROPOSED (CLAIMS IN 108PV01)