

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:	
<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>	

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
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NAME OF SUBMITTER:	JENNIFER GU
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SIGNATURE:	/Jennifer Gu/
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DATE SIGNED:	04/15/2021
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Total Attachments: 15

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**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.

2. 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.

3. 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.

[REMAINDER OF PAGE INTENTIONALLY LEFT BLANK]

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

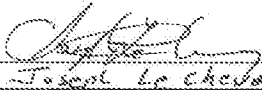
Address of Grantor:

139 Townsend Street, Suite 300
San Francisco, CA 94107

GRANTOR:

SMULE, INC.

By: _____
Name: _____
Title: _____

By: 
Name: Joseph Lechevallier
Title: CEO

Address of Lender:

55 Almaden Boulevard, Suite 100
San Jose, CA 95113

LENDER:

WESTERN ALLIANCE BANK

By: _____
Name: _____
Title: _____

248388488 v1

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

GRANTOR:

Address of Grantor:

139 Townsend Street, Suite 300
San Francisco, CA 94107

SMULE, INC.

By: 

Name: Teltrey Smith

Title: CEO

By: _____

Name: _____

Title: _____

LENDER:

Address of Lender:

55 Almaden Boulevard, Suite 100
San Jose, CA 95113

WESTERN ALLIANCE BANK

By: _____

Name: _____

Title: _____

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

GRANTOR:

SMULE, INC.

Address of Grantor:

139 Townsend Street, Suite 300
San Francisco, CA 94107

By: _____

Name: _____

Title: _____

By: _____

Name: _____

Title: _____

LENDER:

WESTERN ALLIANCE BANK

Address of Lender:

55 Almaden Boulevard, Suite 100
San Jose, CA 95113

By: DocuSigned by:
Riesa Nunes

Name: DocuSigned by: Riesa Nunes

Title: DocuSigned by: Loan Operations Group Director

EXHIBIT C

PATENTS

Please see attached Schedule

SMULE, INC. Current U.S. and Foreign Patent Matters

Reference #	Prior Reference #	CTY	Title	Type	Inventor Names Combined	Serial #	Filed Date	Priority Date	Patent #	Issue Date	Expiration Date	Status	Next Due (Current)
50342.00001	140-0001-US	US	System And Method For Communication Between Mobile Devices Using Digital/Acoustic Techniques	UTL	Cook, Perry R.	12/553786	9/3/2009	9/3/2008	8750473	6/10/2014	6/26/2032	ISSUED	12/10/2021 1ST MAINT FEE DUE
50342.00001US02	50342.00077	US	System And Method For Communication Between Mobile Devices Using Digital/Acoustic Techniques	UTL	Cook, 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
50342.00001US03	50342.00077US03	US	System And Method For Communication Between Mobile Devices Using Digital/Acoustic Techniques	UTL	Cook, Perry R.	14/752283	6/26/2015	9/3/2008	9596036	3/14/2017	9/3/2029	ISSUED	9/14/2024 1ST MAINT FEE DUE
50342.00001US04	50342.00077US04	US	System And Method For Communication Between Mobile Devices Using Digital/Acoustic Techniques	UTL	Cook, Perry R.	15/457292	3/13/2017	9/3/2008	10103620	10/16/2018	9/3/2029	ISSUED	4/16/2022 1ST MAINT FEE DUE
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	11/4/2009	11/4/2009	8222507	7/17/2012	7/11/2030	ISSUED	01/17/2024 3RD MAINT FEE DUE
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.	13/532321	6/25/2012	11/4/2009	8686276	4/1/2014	11/4/2029	ISSUED	10/01/2021 2ND MAINT FEE DUE
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 Fiebrink, Rebecca A. Wang, Ge Ljungstrom, Mattias Smith, Jeffrey C.	12/876131	9/4/2010	12/15/2009	9058797	6/16/2015	7/26/2032	ISSUED	12/16/2022 1ST MAINT FEE DUE
50342.00014US02		US	Continuous Pitch-Corrected Vocal Capture Device Cooperative With Content Server For Backing Track Mix	UTL	Cook, Perry R. Salazar, Spencer Fiebrink, Rebecca A. Wang, Ge Ljungstrom, Mattias Smith, Jeffrey C.	14/720320	5/22/2015	12/15/2009	9754571	9/5/2017	9/28/2030	ISSUED	3/05/2025 1ST MAINT FEE DUE
50342.00014US03		US	Continuous Pitch-Corrected Vocal Capture Device Cooperative With Content Server For Backing Track Mix	UTL	Cook, Perry R. Salazar, Spencer Fiebrink, Rebecca A. Wang, Ge Ljungstrom, Mattias Smith, Jeffrey C.	15/693946	9/1/2017	12/15/2009	10685634	6/16/2020	9/4/2030	ISSUED	12/16/2023 1ST MAINT FEE DUE
50342.00014US04		US	Continuous Pitch-Corrected Vocal Capture Device Cooperative With Content Server For Backing Track Mix	UTL	Cook, Perry R. Salazar, Spencer Fiebrink, Rebecca A. Wang, Ge Ljungstrom, Mattias Smith, Jeffrey C.	16/698891	6/11/2020	12/15/2009				PENDING	AWAITING OFFICE ACTION
50342.00015	140-0008-AU	AU	Continuous Pitch-Corrected Vocal Capture Device Cooperative With Content Server	UTL	Wang, Ge Salazar, Spencer Fiebrink, Rebecca A. Smith, Jeffrey C. Ljungstrom, Mattias Cook, Perry R.	2010332041	12/13/2010	12/15/2009	2010332041	10/16/2014	12/13/2030	ISSUED	12/13/2021 ANNUITY DUE
50342.00016	140-0008-CA	CA	Continuous Pitch-Corrected Vocal Capture Device Cooperative With Content Server	UTL	Wang, Ge Salazar, Spencer Fiebrink, Rebecca A. Smith, Jeffrey C. Ljungstrom, Mattias Cook, Perry R.	2786241	12/13/2010	12/15/2009	2786241	6/12/2016	12/13/2030	ISSUED	12/13/2021 ANNUITY DUE
50342.00017	140-0008-GB	GB	Continuous Pitch-Corrected Vocal Capture Device Cooperative With Content Server	UTL	Wang, Ge Salazar, Spencer Fiebrink, Rebecca A. Smith, Jeffrey C. Ljungstrom, Mattias Cook, Perry R.	1211875.5	12/13/2010	12/15/2009	2488957	5/31/2017	12/13/2030	ISSUED	12/13/2021 ANNUITY DUE
50342.00025US01	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	13/085413	4/12/2011	4/12/2010	8668411	10/21/2014	12/27/2032	ISSUED	04/21/2022 2ND MAINT FEE DUE
50342.00025US02	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	14/517647	10/17/2014	4/12/2010	9852742	12/26/2017	9/4/2030	ISSUED	06/26/2021 1ST MAINT FEE DUE
50342.00025US04		US	Pitch-Correction Of Vocal Performance In Accord With Score-Coded Harmonies	UTL	Cook, Perry R. Lazier, Ari Lieber, Tom Kirk, Turner Evan	17/249169	2/22/2021					PENDING	5/23/21 MISSING PARTS DUE
50342.00025US03		US	Pitch-Correction Of Vocal Performance In Accord With Score-Coded Harmonies	UTL	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	140-0010-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	2796241	4/12/2011	4/12/2010			4/12/2031	ALLOWED	AWAITING GRANTED PATENT

SMULE, INC. Current U.S. and Foreign Patent Matters

Reference #	Prior Reference #	CTY	Title	Type	Inventor Names Combined	Serial #	Filed Date	Priority Date	Patent #	Issue Date	Expiration Date	Status	Next Due (Current)
50342.00025GB01	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	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	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		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	1/26/2018	4/12/2010	1242465	9/13/2019		ISSUED	04/12/2023 ANNUITY DUE
50342.00025HK03		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	1/26/2018	4/12/2010	1242037	9/6/2019		ISSUED	4/12/2026 ANNUITY DUE
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	13/085414	4/12/2011	4/12/2010	8983829	3/17/2015	5/1/2033	ISSUED	09/17/2022 2ND MAINT FEE DUE
50342.00028US02		US	Coordinating And Mixing Vocals Captured From Geographically Distributed Performers	UTL	Cook, Perry R. Lazier, Ari Lieber, Tom Kirk, Turner Evan	14/658344	3/12/2015	4/12/2010	9/21579	8/1/2017	12/9/2030	ISSUED	02/01/2025 1ST MAINT FEE DUE
50342.00028US03		US	Coordinating And Mixing Vocals Captured From Geographically Distributed Performers	UTL	Cook, Perry R. Lazier, Ari Lieber, Tom Kirk, Turner Evan	15/664659	7/31/2017	4/12/2010	10395666	5/27/2019	9/4/2030	ISSUED	2/27/2023 1ST MAINT FEE DUE
50342.00028US04		US	Coordinating And Mixing Vocals Captured From Geographically Distributed Performers	UTL	Cook, Perry R. Lazier, Ari Lieber, Tom Kirk, Turner Evan	16/550769	8/25/2019	4/12/2010				ALLOWED	6/24/2021 1ST FEE DUE
50342.00029	140-0013 US	US	Computational Techniques For Continuous Pitch Correction And Harmony Generation	UTL	Cook, Perry R. Lazier, Ari Lieber, Tom	13/085415	4/12/2011	4/12/2010	8996364	3/31/2015	4/17/2033	ISSUED	09/30/2022 1ST MAINT FEE DUE
50342.00032	140-0015 US	US	Continuous Score-Coded Pitch Correction	UTL	Cook, Perry R. Salazar, Spencer Fiebrink, Rebecca A. Wang, Ge Ljungstrom, Mattias Smith, Jeffrey C.	12/878132	9/4/2010	4/12/2010	9147385	9/29/2015	7/19/2032	ISSUED	03/29/2023 1ST MAINT FEE DUE
50342.00032US02		US	Continuous Score-Coded Pitch Correction	UTL	Cook, Perry R. Salazar, Spencer Fiebrink, Rebecca A. Wang, Ge Ljungstrom, Mattias Smith, Jeffrey C.	14/358152	9/16/2015	4/12/2010	9754572	9/5/2017	9/4/2030	ISSUED	03/05/2025 1ST MAINT FEE DUE
50342.00032US03		US	Continuous Score-Coded Pitch 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	10672375	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	UTL	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 FEE DUE
50342.00034US02	50342.00081	US	System And Method For Capture And Rendering Of Performance On Synthetic String Instrument	UTL	Wang, Ge Yang, Jeannie Oh, Jieun Lieber, Tom	14/323667	7/3/2014	11/9/2010	9640180	5/2/2017	12/21/2031	ISSUED	11/02/2024 1ST MAINT FEE DUE
50342.00034US03	50342.00081US03	US	System And Method For Capture And Rendering Of Performance On Synthetic String Instrument	UTL	Wang, Ge Yang, Jeannie Oh, Jieun Lieber, Tom	15/583632	5/1/2017	11/9/2010	10183428	12/25/2018	11/9/2031	ISSUED	8/25/2022 1ST MAINT FEE DUE
50342.00037	140-0018 US	US	Audiovisual Sampling For Percussion-Type Instrument With Crowd-Sourced Content Sourcing And Distribution	UTL	Kruege, Nicholas M. Wang, Ge Cook, Perry R.	13/607153	9/7/2012	9/7/2011	9176610	11/3/2015	3/21/2034	ISSUED	05/03/2023 2ND MAINT FEE DUE

SMULE, INC. Current U.S. and Foreign Patent Matters

Reference #	Prior Reference #	CTY	Title	Type	Inventor Names Combined	Serial #	Filed Date	Priority Date	Patent #	Issue Date	Expiration Date	Status	Next Due (Current)
50342.00039	140-0019 US	US	Synthetic Musical Instrument With Performance And/Or Skill-Adaptive Score Tempo	UTL	Hamilton, Robert Chaudhary, Amanda S. Lazier, Ari Smith, Jeffrey C.	13/664939	10/31/2012	10/31/2011	9082380	7/14/2015	4/3/2033	ISSUED	01/14/2023 1ST MAINT FEE DUE
50342.00039US02		US	Synthetic Musical Instrument With Performance - And/Or Skill-Adaptive Score Tempo	UTL	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 Cook, Perry R.	13/853759	3/29/2013	3/29/2012	9324330	4/26/2016	4/2/2034	ISSUED	10/26/2023 1ST MAINT FEE DUE
50342.00046US02	140-0022-1US 50342.00063	US	Automatic Conversion Of Speech Into Song, Rap, Or Other Audible Expression Having Target Meter Or Rhythm	UTL	Gupta, Prema Cook, Perry R. Chordia, Parag Godfrey, Mark Rae, Alexander	13/910949	6/5/2013	3/29/2012	9666199	5/30/2017	7/18/2033	ISSUED	11/30/2024 1ST MAINT FEE DUE
50342.00046US03	50342.00063US02	US	Automatic Conversion Of Speech Into Song, Rap, Or Other Audible Expression Having Target Meter Or Rhythm	UTL	Chordia, Parag Godfrey, Mark Rae, Alexander Gupta, Prema Cook, Perry R.	15/806111	5/26/2017	3/29/2012	10290307	5/14/2019	3/29/2033	ISSUED	11/14/2022 1ST MAINT FEE DUE
50342.00046US04	50342.00063US03	US	Automatic Conversion Of Speech Into Song, Rap, Or Other Audible Expression Having Target Meter Or Rhythm	UTL	Chordia, Parag Godfrey, Mark Rae, Alexander Gupta, Prema Cook, Perry R.	16/410500	5/13/2019	5/26/2017				PENDING	4/5/2021 2 MO RESPONSE TO FINAL ACTION DUE (TO BE FILED 4/5)
50342.00063		KR	Automatic Conversion Of Speech Into Song, Rap Or Other Audible Expression Having Target Meter Or Rhythm	UTL	Chordia, Parag Godfrey, Mark Rae, Alexander Gupta, Prema Cook, Perry R.	2014-7030440	3/29/2013	3/29/2012	10-2038171	10/23/2019	3/29/2033	ISSUED	10/23/2022 ANNUITY DUE
50342.00064		JP	Automatic Conversion Of Speech Into Song, Rap Or Other Audible Expression Having Target Meter Or Rhythm	UTL	Chordia, Parag Godfrey, Mark Rae, Alexander Gupta, Prema Cook, Perry R.	2015-503661	3/29/2013	3/29/2012	8290858	2/16/2018	3/29/2033	ISSUED	02/16/2022 ANNUITY DUE
50342.00066US01	140-0028-US	US	Automatic Estimation Of Latency For Synchronization Of Recordings In Vocal Capture Applications	UTL	Amanda S. Chaudhary	14/216136	3/17/2014	3/15/2013	9412390	8/9/2016	7/30/2034	ISSUED	02/09/2024 2ND MAINT FEE DUE
50342.00066US02		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	15/178234	6/9/2016	3/15/2013	10284985	5/7/2019	3/17/2034	ISSUED	11/7/2022 1ST 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 Effect(s) Schedule(s)	UTL	Yang, Jeannie Kruge, Nicholas M. Thompson, Gregory C. Cook, Perry R.	13/960564	6/6/2013	6/7/2012	9601127	3/21/2017	12/4/2033	ISSUED	09/21/2024 1ST MAINT FEE DUE
50342.00069US02		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 Effect(s) Schedule(s)	UTL	Yang, Jeannie Kruge, Nicholas M. Thompson, Gregory C. Cook, Perry R.	15/463676	3/20/2017	4/12/2010	10229662	3/12/2019	4/12/2031	ISSUED	9/12/2022 1ST MAINT FEE DUE

SMULE, INC. Current U.S. and Foreign Patent Matters

Reference #	Prior Reference #	CTY	Title	Type	Inventor Names Combined	Serial #	Filed Date	Priority Date	Patent #	Issue Date	Expiration Date	Status	Next Due (Current)
50342.00069US03		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 Effect(s) Schedule(s)	UTL	Yang, Jeannie Kruge, Nicholas M. Thompson, Gregory C. Cook, Perry R.	15/296391	3/8/2019	4/12/2010	10930256	2/23/2021	4/12/2031	ISSUED	8/23/2024 1ST MAINT FEE DUE
50342.00069US04		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 Effect(s) Schedule(s)	UTL	Yang, Jeannie Kruge, Nicholas M. Thompson, Gregory C. Cook, Perry R.	17/249113	2/19/2021					PENDING	5/3/21 MISSING PARTS DUE
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 Kruge, Nicholas M. Thompson, Gregory C. Cook, Perry R.	2015-526650	9/6/2013	8/7/2012	6371283	7/20/2018	9/6/2033	ISSUED	07/20/2021 ANNUITY DUE
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 Kruge, Nicholas M. Thompson, Gregory C. Cook, Perry R.	2015-700588	8/6/2013	8/7/2012			8/6/2033	ALLOWED	9/16/2021 FINAL FEE / DIVISIONAL DUE
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, Prema Kruge, Nicholas M. Leistikow, Randal J. Rae, Alexander M.D. Simon, Ian S.	14/104618	12/12/2013	12/12/2012	9459768	10/4/2016	1/11/2034	ISSUED	04/04/2024 2ND MAINT FEE DUE
50342.00073US03		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, Prema Kruge, Nicholas M. Leistikow, Randal J. Rae, Alexander M.D. Simon, Ian S.	16/834775	3/30/2020	12/12/2012				PENDING	9/30/2021 AWAITING OFFICE ACTION
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, Prema Kruge, Nicholas M. Leistikow, Randal J. Rae, Alexander M.D. Simon, Ian S.	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
50342.00075US01		US	Computationally-Assisted Musical Sequencing And/Or Composition Techniques For Social Music Challenge Or Competition	UTL	Leistikow, Randal J. Godfrey, Mark Simon, Ian S. Yang, Jeannie Allen, Michael W.	14/567625	12/31/2014	12/31/2013	10262644	4/16/2019	12/31/2034	ISSUED	10/16/2022 1ST MAINT FEE DUE
50342.00075US02		US	Computationally-Assisted Musical Sequencing And/Or Composition Techniques For Social Music Challenge Or Competition	UTL	Leistikow, Randal J. Godfrey, Mark Simon, Ian S. Yang, Jeannie Allen, Michael W.	16/384273	4/15/2019	12/31/2013				PENDING	AWAITING OFFICE ACTION
50342.00078US01		US	Score-Directed String Retuning And Gesture Cueing In Synthetic Multi-String Musical Instrument	UTL	Kruge, Nick	14/285391	5/22/2014	5/22/2013	9472178	10/18/2016	1/2/2035	ISSUED	04/18/2024 2ND MAINT FEE DUE
50342.00079US01		US	Coordinated Audiovisual Montage From Selected Crowd-Sourced Content With Alignment To Audio Baseline	UTL	Godfrey, Mark T. Kirk, Turner Evan Simon, Ian S. Kruge, Nicholas M.	14/739810	6/15/2015	6/13/2014	10971191		6/15/2035	ALLOWED	AWAITING ISSUED PATENT
50342.00079US02		US	Coordinated Audiovisual Montage From Selected Crowd-Sourced Content With Alignment To Audio Baseline	CON	Godfrey, Mark T. Kirk, Turner Evan Simon, Ian S. Kruge, Nicholas M.	17/222752	4/5/2021					PENDING	AWTG FILING RECEIPT
50342.00079WO01		WO	Coordinated Audiovisual Montage From Selected Crowd-Sourced Content With Alignment To Audio Baseline	UTL	Godfrey, Mark T. Kirk, Turner Evan Simon, Ian S. Kruge, Nicholas M.	PC1/US2015/035830	6/15/2015	5/13/2014				EXPIRED	

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Reference #	Prior Reference #	CTY	Title	Type	Inventor Names Combined	Serial #	Filed Date	Priority Date	Patent #	Issue Date	Expiration Date	Status	Next Due (Current)
50342.00086US01		US	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 Performers	UTL	Godfrey, Mark T. Cook, Perry R.	PCT/US2015/058373	10/30/2015	10/30/2014				EXPIRED	
50342.00086US01		US	Coordinating And Mixing Audiovisual Content Captured From Geographically Distributed 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
50342.00087US01		US	Automated Generation Of Coordinated Audiovisual Work Based On Content Captured Geographically Distributed Performers	UTL	Sung, Kevin Moldover, Jon Cook, Perry R. Kim, Bona Shimmin, John Yang, Jeannie	15/173041	6/3/2016	6/3/2015	9911403	3/6/2018	6/3/2036	ISSUED	9/06/2021 1ST MAINT FEE DUE
50342.00087US02		US	Automated Generation Of Coordinated Audiovisual Work Based On Content Captured Geographically Distributed Performers	UTL	Sung, Kevin Moldover, Jon Cook, Perry R. Kim, Bona Shimmin, John Yang, Jeannie	15/910646	3/2/2018	6/3/2015	10424283	9/24/2019	6/3/2036	ISSUED	3/24/2023 1ST MAINT FEE DUE
50342.00087US03		US	Automated Generation Of Coordinated Audiovisual Work Based On Content Captured Geographically Distributed Performers	UTL	Sung, Kevin Moldover, Jon Cook, Perry R. Kim, Bona Shimmin, John Yang, Jeannie	16/574971	9/18/2019	6/3/2015				PENDING	AWAITING OFFICE ACTION
50342.00087WO01		WO	Automated Generation Of Coordinated Audiovisual Work Based On Content Captured From Geographically Distributed Performers	UTL	Sung, Kevin Moldover, Jon Cook, Perry R. Kim, Bona Shimmin, John Yang, Jeannie	PCT/US2015/035810	6/3/2016	6/3/2015				EXPIRED	
50342.00087AU01		AU	Automated Generation Of Coordinated Audiovisual Work Based On Content Captured From Geographically Distributed Performers	UTL	Sung, Kevin Moldover, Jon Cook, Perry R. Kim, Bona Shimmin, John Yang, Jeannie	2016270352	6/3/2016	6/3/2015	2016270352	2/22/2021		ISSUED	12/23/2021 ANNUITY DUE
50342.00087CN01		CN	Automated Generation Of Coordinated Audiovisual Work Based On Content Captured From Geographically Distributed Performers	UTL	Sung, Kevin Moldover, Jon Cook, Perry R. Kim, Bona Shimmin, John Yang, Jeannie	201680032651.6	6/3/2016	6/3/2016				PENDING	AWT/OFFICE ACTION
50342.00087GB01		GB	Automated Generation Of Coordinated Audiovisual Work Based On Content Captured From Geographically Distributed Performers	UTL	Sung, Kevin Moldover, Jon Cook, Perry R. Kim, Bona Shimmin, John Yang, Jeannie	1719624.7	6/3/2016	6/3/2015				PENDING	11/19/2021 ACCEPTANCE DEADLINE
50342.00087HK01		HK	Automated Generation Of Coordinated Audiovisual Work Based On Content Captured From Geographically Distributed Performers	UTL	Sung, Kevin Moldover, Jon Cook, Perry R. Kim, Bona Shimmin, John Yang, Jeannie	18114436.1	11/12/2018	6/3/2015				PENDING	11/12/2023 STAGE 2 STATUS CHECK
50342.00087KR01		KR	Automated Generation Of Coordinated Audiovisual Work Based On Content Captured From Geographically Distributed Performers	UTL	Sung, Kevin Moldover, Jon Cook, Perry R. Kim, Bona Shimmin, John Yang, Jeannie	2017-7034851	6/3/2016	6/3/2015				PENDING	06/03/2021 REQUEST EXAMINATION
50342.00089US01		US	Synthetic Musical Instrument With Touch Dynamics And/Or Expressiveness Control	UTL	Cook, Perry R. Yang, Jeannie Woo, Yuning Shimmin, John 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, Yuning Shimmin, John Berger, Michael Leistikow, Randal Smith, Jeff	PCT/US2016/053731	9/26/2016	9/24/2015				EXPIRED	
50342.00090US02		US	Display Screen or Portion Thereof with Animated Graphical User Interface	DES	Hersh, Benjamin Shimmin, John Yang, Jeannie Cook, Perry R.	29/566061	5/26/2016	10/6/2015	D839287	1/29/2018	10/6/2036	ISSUED	
50342.00090US03		US	Display Screen or Portion Thereof with Animated Graphical User Interface	DES	Hersh, Benjamin Shimmin, John Yang, Jeannie Cook, Perry R.	29/566062	5/26/2016	10/6/2015	D800751	10/24/2017	10/24/2032	ISSUED	

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Reference #	Prior Reference #	CTY	Title	Type	Inventor Names Combined	Serial #	Filed Date	Priority Date	Patent #	Issue Date	Expiration Date	Status	Next Due (Current)
50342.00090US04		US	Display Screen Or Portion Thereof With Animated Graphical User Interface	DES	Hersh, Benjamin Shimmin, John Yang, Jeannie Cook, Perry R.	29/566239	5/27/2016	10/6/2015	D805528	12/19/2017		ISSUED	
50342.00090US05		US	Display Screen Or Portion Thereof With Animated Graphical User Interface	DES	Hersh, Benjamin Shimmin, John Yang, Jeannie Cook, Perry R.	29/566242	5/27/2016	10/6/2015	D806092	12/26/2017		ISSUED	
50342.00090US06		US	Animated Graphical User Interface For A Display Screen Or Portion Thereof	DES	Hersh, Benjamin Shimmin, John Yang, Jeannie Cook, Perry R.	29/566249	5/27/2016	10/6/2015	D805526	12/19/2017		ISSUED	
50342.00090US07		US	Display Screen or Portion Thereof with Animated Graphical User Interface	DES	Hersh, Benjamin Shimmin, John Yang, Jeannie Cook, Perry R.	29/566255	5/27/2016	10/6/2015	D807381	1/9/2018		ISSUED	
50342.00090US08		US	Display Screen Or Portion Thereof With Animated Graphical User Interface	DES	Hersh, Benjamin Shimmin, John Yang, Jeannie Cook, Perry R.	29/566070	5/26/2016	10/6/2015	D801364	10/31/2017	10/31/2032	ISSUED	
50342.00090US09		US	Graphical User Interface For A Display Screen Or Portion Thereof	DES	Hersh, Benjamin Shimmin, John Yang, Jeannie Cook, Perry R.	29/566074	5/26/2016	10/6/2015	D803245	11/21/2017		ISSUED	
50342.00090US10		US	Display Screen or Portion Thereof with Graphical User Interface	DES	Hersh, Benjamin Shimmin, John Yang, Jeannie Cook, Perry R.	29/566079	5/26/2016	10/6/2015	D801999	11/7/2017	11/7/2032	ISSUED	
50342.00090US11		US	Display Screen or Portion Thereof with Animated Graphical User Interface	DES	Hersh, Benjamin Shimmin, John Yang, Jeannie Cook, Perry R.	29/566085	5/26/2016	10/6/2015	D800752	10/24/2017	10/24/2032	ISSUED	
50342.00090US12		US	Animated Graphical User Interface For A Display Screen Or Portion Thereof	DES	Hersh, Benjamin Shimmin, John Yang, Jeannie Cook, Perry R.	29/566090	5/26/2016	10/6/2015	D800753	10/24/2017	10/24/2032	ISSUED	
50342.00090US13		US	Display Screen Or Portion Thereof With Graphical User Interface	DES	Hersh, Benjamin Shimmin, John Yang, Jeannie Cook, Perry R.	29/566265	5/27/2016	10/6/2015	D805530	12/19/2017		ISSUED	
50342.00090US14		US	Graphical User Interface For A Display Screen Or Portion Thereof	DES	Hersh, Benjamin Shimmin, John Yang, Jeannie Cook, Perry R.	29/566269	5/27/2016	10/6/2015	D813265	3/20/2018		ISSUED	
50342.00090US15		US	Graphical User Interface For A Display Screen Or Portion Thereof	DES	Hersh, Benjamin Shimmin, John Yang, Jeannie Cook, Perry R.	29/566279	5/27/2016	10/6/2015	D805531	12/19/2017		ISSUED	
50342.00090US16		US	Graphical User Interface For A Display Screen Or Portion Thereof	DES	Hersh, Benjamin Shimmin, John Yang, Jeannie Cook, Perry R.	29/566288	5/27/2016	10/6/2015	D813295	3/20/2018		ISSUED	
50342.00091US01		US	Audiovisual Media Application Platform with Wireless Handheld Audiovisual Input	UTL	Hersh, Benjamin Shimmin, John Yang, Jeannie Cook, Perry R.	15/337866	10/28/2016	10/28/2015	10565972	2/18/2020	10/28/2036	ISSUED	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-Vocalist Methods Thereof	UTL	Hersh, Benjamin Shimmin, John Yang, Jeannie Cook, Perry R.	PCT/US2016/059531	10/28/2016	10/28/2015				EXPIRED	
50342.00096US01		US	Crowd-Sourced Technique For Pitch Track Generation	UTL	Sullivan, Stefan Shimmin, John Schaffer, Dean Cook, Perry R.	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	UTL	Sullivan, Stefan Shimmin, John Schaffer, Dean Cook, Perry R.	16/665611	10/28/2019					PENDING	6/16/2021 RESPONSE TO OA
50342.00096WO01		WO	Crowd-Sourced Technique for Pitch Track Generation	UTL	Sullivan, Stefan Shimmin, John Schaffer, Dean Cook, Perry R.	PCT/US2017/041952	7/13/2017	7/13/2016				EXPIRED	CN, EP, IN FILINGS
50342.00097US01		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	15/667372	8/2/2017	8/2/2016	10339906	7/2/2019	8/2/2037	ISSUED	1/2/2023 1ST MAINTENANCE FEE DUE
50342.00098US02		US	Display Screen Or Portion Thereof With Animated Graphical User Interface	DES	Espeleta, Charles Yang, Jeannie Corral, Oscar Moody, Jonathan Xie, Ran Smith, Jeffrey C. Hamilton, Robert	29/600446	4/12/2017	8/2/2016	D844664	4/2/2019		ISSUED	

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50342.00098US03		US	Display Screen Or Portion Thereof With Animated Graphical User Interface	DES	Espeleta, Charles Yang, Jeannie Corral, Oscar Moody, Jonathan Xie, Ran Smith, Jeffrey C. Hamilton, Robert	29/600449	4/12/2017	8/2/2016	D845342	4/9/2019		ISSUED	
50342.00098US04		US	Display Screen Or Portion Thereof With Animated Graphical User Interface	DES	Espeleta, Charles Yang, Jeannie Corral, Oscar Moody, Jonathan Xie, Ran Smith, Jeffrey C. Hamilton, Robert	29/600450	4/12/2017	8/2/2016	D844646	4/2/2019		ISSUED	
50342.00098US05		US	Display Screen Or Portion Thereof With Animated Graphical User Interface	DES	Espeleta, Charles Yang, Jeannie Corral, Oscar Moody, Jonathan Xie, Ran Smith, Jeffrey C. Hamilton, Robert	29/600452	4/12/2017	8/2/2016	D844665	4/2/2019		ISSUED	
50342.00098US06		US	Display Screen Or Portion Thereof With Animated Graphical User Interface	DES	Espeleta, Charles Yang, Jeannie Corral, Oscar Moody, Jonathan Xie, Ran Smith, Jeffrey C. Hamilton, Robert	29/600455	4/12/2017	8/2/2016	D844666	4/2/2019		ISSUED	
50342.00098US07		US	Display Screen Or Portion Thereof With Animated Graphical User Interface	DES	Espeleta, Charles Yang, Jeannie Corral, Oscar Moody, Jonathan Xie, Ran Smith, Jeffrey C. Hamilton, Robert	29/600456	4/12/2017	8/2/2016	D844667	4/2/2019		ISSUED	
50342.00098US08		US	Display Screen Or Portion Thereof With Animated Graphical User Interface	DES	Espeleta, Charles Yang, Jeannie Corral, Oscar Moody, Jonathan Xie, Ran Smith, Jeffrey C. Hamilton, Robert	29/600458	4/12/2017	8/2/2016	D844647	4/2/2019		ISSUED	
50342.00098US09		US	Display Screen Or Portion Thereof With Animated Graphical User Interface	DES	Espeleta, Charles Yang, Jeannie Corral, Oscar Moody, Jonathan Xie, Ran Smith, Jeffrey C. Hamilton, Robert	29/600460	4/12/2017	8/2/2016	D845319	4/9/2019		ISSUED	
50342.00098US10		US	Display Screen Or Portion Thereof With Animated Graphical User Interface	DES	Espeleta, Charles Yang, Jeannie Corral, Oscar Moody, Jonathan Xie, Ran Smith, Jeffrey C. Hamilton, Robert	29/600461	4/12/2017	8/2/2016	D837246	1/1/2019		ISSUED	
50342.00099PV01		US	Audiovisual Collaboration Method with Latency Management for Wide-Area Broadcast	PRV	Holmberg, Anton Hersh, Benjamin Yang, Jeannie Cook, Perry R. Smith, Jeffrey C.	62/480610	4/3/2017	4/3/2017				EXPIRED	US AND PCT FILED
50342.00099PV02		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.	62/685727	6/15/2018	6/15/2018				EXPIRED	US AND PCT FILED
50342.00099US01		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	4/3/2018	4/3/2017				ALLOWED	5/9/2021 ISSUE FEE DUE
50342.00099US02		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.	16/443022	6/17/2019	6/15/2018				PENDING	4/9/2021 RESPONSE TO FINAL OA DUE + EOT
50342.00099CN02		CN	Audiovisual Livestream System And Method With Latency Management And Social Media-Type User Interface Mechanics		Holmberg, Anton Hersh, Benjamin Yang, Jeannie Woo, Yuning Liang, Wang Cook, Perry R. Smith, Jeffrey C.	201980052977.9	5/17/2019	6/15/2018				PENDING	6/15/2021 REQUEST FOR EXAMINATION DUE
50342.00099IN02		IN	Audiovisual Livestream System And Method With Latency Management And Social Media-Type User Interface Mechanics		Holmberg, Anton Hersh, Benjamin Yang, Jeannie Woo, Yuning Liang, Wang Cook, Perry R. Smith, Jeffrey C.	202117005519	6/17/2019	6/15/2018				PENDING	6/15/2022 REQUEST EXAMINATION DUE

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Reference #	Prior Reference #	CTY	Title	Type	Inventor Names Combined	Serial #	Filed Date	Priority Date	Patent #	Issue Date	Expiration Date	Status	Next Due (Current)
50342.00099EP02		EP	Audiovisual Livestream System And Method With Latency Management And Social Media-Type User Interface Mechanics		Holmberg, Anton Hersh, Benjamin Yang, Jeannie Woo, Yuning Liang, Wang Cook, Perry R. Smith, Jeffrey C.	19819554.7	5/17/2019	6/15/2018				PENDING	8/17/2021 ANNUITY DUE, AWTG OFFICE ACTION
50342.00099ZA02		ZA	Audiovisual Livestream System And Method With Latency Management And Social Media-Type User Interface Mechanics		Holmberg, Anton Hersh, Benjamin Yang, Jeannie Woo, Yuning Liang, Wang Cook, Perry R. Smith, Jeffrey C.	2021/00066	6/17/2018	8/15/2018				PENDING	7/5/2021 - RESPONSE/POWER OF ATTORNEY AND FORMS DUE
50342.00099WO01		PCT	Audiovisual Collaboration Method with Latency Management for Wide-Area Broadcast	PCT	HOLMBERG, Anton HERSH, Benjamin YANG, Jeannie COOK, Perry R. SMITH, Jeffrey C.	PCT/US18/25937	4/3/2018	4/3/2017				EXPIRED	CN, DE FILINGS
50342.00099CN01		CN	Audiovisual Collaboration Method with Latency Management for Wide-Area Broadcast		HOLMBERG, Anton HERSH, Benjamin YANG, Jeannie COOK, Perry R. SMITH, Jeffrey C.	201880036672.4	4/3/2018	4/3/2017				PENDING	AWTG OFFICE ACTION
50342.00099DE01		DE	Audiovisual Collaboration Method with Latency Management for Wide-Area Broadcast		HOLMBERG, Anton HERSH, Benjamin YANG, Jeannie COOK, Perry R. SMITH, Jeffrey C.	112018001871.7	4/3/2018	4/3/2017				PENDING	4/3/2025 REQUEST EXAMINATION
50342.00099HK01		HK	Audiovisual Collaboration Method with Latency Management for Wide-Area Broadcast		HOLMBERG, Anton HERSH, Benjamin YANG, Jeannie COOK, Perry R. SMITH, Jeffrey C.	62020011100.8	4/3/2018	4/3/2017				PENDING	4/3/2023 STAGE 2 STATUS CHECK
50342.00101US01		US	Audio-Visual Effects System for Augmentation of Captured Performance Based on Content Thereof	US	STEINWEDEL, David CHI, Paul ZHOU, Wei MOLDOVER, Jon HOLMBERG, Anton COOK, Perry R. Li, Jingxi	16/107351	8/21/2018	8/21/2017				PENDING	AWTG EXAMINERS ANSWER
50342.00101WO01		PCT	Audio-Visual Effects System for Augmentation of Captured Performance Based on Content Thereof	PCT	STEINWEDEL, David CHI, Paul ZHOU, Wei MOLDOVER, Jon HOLMBERG, Anton COOK, Perry R. Li, Jingxi	PCT/US2018/047325	8/21/2018	8/21/2018				EXPIRED	FILED CN, DE
50342.00101CN01		CN	Audio-Visual Effects System for Augmentation of Captured Performance Based on Content Thereof		STEINWEDEL, David CHI, Paul ZHOU, Wei MOLDOVER, Jon HOLMBERG, Anton COOK, Perry R. Li, Jingxi	201880054029.4	8/21/2018	8/21/2018				PENDING	AWAITING OFFICE ACTION
50342.00101DE01		DE	Audio-Visual Effects System for Augmentation of Captured Performance Based on Content Thereof		STEINWEDEL, David CHI, Paul ZHOU, Wei MOLDOVER, Jon HOLMBERG, Anton COOK, Perry R. Li, Jingxi	112018004717.2	8/21/2018	8/21/2018				PENDING	8/21/21 ANNUITY DUE 8/21/25 REQUEST EXAMINATION
50342.00101PV01		US	Audio-Visual Effects System for Augmentation of Captured Performance Based on Emotional Content Thereof	PRV	STEINWEDEL, David CHI, Paul ZHOU, Wei MOLDOVER, Jon HOLMBERG, Anton COOK, Perry R. Li, Jingxi	62/548122	8/21/2017	8/21/2017				EXPIRED	US AND PCT FILED
50342.00104PV01		US	Non-Linear Media Segment Capture Techniques for Karaoke-Style Content	PRV	Steinwedel, David Slobodien, Andrea Cook, Perry R.	62/674460	5/21/2018					EXPIRED	US AND PCT FILED
50342.00104PV02		US	Non-Linear Media Segment Capture And Edit Platform For Karaoke-Style Content And/Or Platform Collaboration	PRV	Steinwedel, David Slobodien, Andrea Chi, Paul T. Smith, Jeffrey C. Cook, Perry R.	62/692129	6/29/2018					EXPIRED	US AND PCT FILED
50342.00104PV03		US	Short Seed Or Clip Generation For User Engagement In Vocal	PRV	Moldover, Jon Steinwedel, David Smith, Jeffrey C. Cook, Perry R.	62/691412	6/25/2018					EXPIRED	US AND PCT FILED
50342.00104US01		US	Non-Linear Media Segment Capture And Edit Platform	UTL	Steinwedel, David Slobodien, Andrea Cook, Perry R. Smith, Jeffrey C.	16/418659	5/21/2019	5/21/2018	10943574	3/9/2021		ISSUED	9/9/2024 1ST MAINT FEE DUE

SMULE, INC. Current U.S. and Foreign Patent Matters

Reference #	Prior Reference #	CTY	Title	Type	Inventor Names Combined	Serial #	Filed Date	Priority Date	Patent #	Issue Date	Expiration Date	Status	Next Due (Current)
50342.00104US02		US	Audiovisual Collaboration System and Method with Seed/Join Mechanic	UTL	Steinwedel, David Slobodien, Andrea Smith, Jeffrey C. Perry R. Cook	16/458550	7/1/2019	6/29/2018				PENDING	6/1/21 - RESPONSE TO FINAL ACTION DUE
50342.00104WO01		PCT	Non-Linear Media Segment Capture And Edit Platform	PCT	Steinwedel, David Slobodien, Andrea Cook, Perry R. Smith, Jeffrey C.	PCT/US2019/033368	5/21/2019	5/21/2018				EXPIRED	CN,EP,IN,ZA FILINGS
50342.00104CN01		CN	Non-Linear Media Segment Capture And Edit Platform		Steinwedel, David Slobodien, Andrea Cook, Perry R. Smith, Jeffrey C.	201980048427.X	5/21/2019					PENDING	5/21/21 REQUEST EXAMINATION
50342.00104EP01		EP	Non-Linear Media Segment Capture And Edit Platform		Steinwedel, David Slobodien, Andrea Cook, Perry R. Smith, Jeffrey C.	19807667.1	5/21/2019					PENDING	5/21/2021 ANNUITY DUE 7/15/2021 RULE 161(2) VOLUNTARY AMENDMENT DUE
50342.00104IN01		IN	Non-Linear Media Segment Capture And Edit Platform		Steinwedel, David Slobodien, Andrea Cook, Perry R. Smith, Jeffrey C.	202017053715	5/21/2019					PENDING	5/21/2022 REQUEST EXAMINATION 6/10/2021 FOREIGN APP DETAILS DUE
50342.00104ZA01		ZA	Non-Linear Media Segment Capture And Edit Platform		Steinwedel, David Slobodien, Andrea Cook, Perry R. Smith, Jeffrey C.	2020/07461	5/21/2019					PENDING	5/30/2021 DEAD DATE FORMS DUE
50342.00104WO02		PCT	Audiovisual Collaboration System and Method with Seed/Join Mechanic	PCT	Steinwedel, David Slobodien, Andrea Smith, Jeffrey C. Perry R. Cook	PCT/US19/00113	7/1/2019	6/29/2018				EXPIRED	CN,EP,IN,ZA FILINGS
50342.00104CN02		CN	Audiovisual Collaboration System and Method with Seed/Join Mechanic		Steinwedel, David Slobodien, Andrea Smith, Jeffrey C. Perry R. Cook	201980056174.0	7/1/2019					PENDING	6/29/21 REQUEST EXAMINATION
50342.00104EP02		EP	Audiovisual Collaboration System and Method with Seed/Join Mechanic		Steinwedel, David Slobodien, Andrea Smith, Jeffrey C. Perry R. Cook	19826456.2	7/1/2019					PENDING	ANNUITY DUE 7- 31-21
50342.00104IN02		IN	Audiovisual Collaboration System and Method with Seed/Join Mechanic		Steinwedel, David Slobodien, Andrea Smith, Jeffrey C. Perry R. Cook	202117003998	7/1/2019					PENDING	6/29/2022 REQUEST EXAMINATION
50342.00104ZA02		ZA	Audiovisual Collaboration System and Method with Seed/Join Mechanic		Steinwedel, David Slobodien, Andrea Smith, Jeffrey C. Perry R. Cook	2021/00461	7/1/2019					PENDING	7/22/2021 FORMS DUE
50342.00104US03		US	SHORT SEGMENT GENERATION FOR USER ENGAGEMENT IN VOCAL CAPTURE APPLICATIONS	UTL	Moldover, Jon Steinwedel, David Smith, Jeffrey C. Cook, Perry R.	16/947943	8/25/2020	8/25/2019				PENDING	AWTG OFFICE ACTION

SMULE, INC. Current U.S. and Foreign Patent Matters

Reference #	Prior Reference #	CTY	Title	Type	Inventor Names Combined	Serial #	Filed Date	Priority Date	Patent #	Issue Date	Expiration Date	Status	Next Due (Current)
50342.00104WO03		PCT	SHORT SEGMENT GENERATION FOR USER ENGAGEMENT IN VOCAL CAPTURE APPLICATIONS	PCT	Moldover, Jon Steinwedel, David Smith, Jeffrey C. Cook, Perry R.	PCT/US2020/047768	8/25/2020	8/25/2019				PENDING	2/25/2022 PCT 30 MO DEADLINE
50342.00108PV01		US	Augmented Reality Filters For Captured Audiovisual Performances	PRO	Steinwedel, David Holmberg, Anton Villegas, Javier Chi, Paul T. Young, David E. Cook, Perry R.	62/774664	12/3/2018					EXPIRED	PCT filed
50342.000108WO01		WO	Augmented Reality Filters For Captured Audiovisual Performances	PCT	Steinwedel, David Holmberg, Anton Villegas, Javier Chi, Paul T. Young, David E. Cook, Perry R.	PCT/US2019/064259	12/3/2019	12/3/2018				PENDING	6/3/2021 PCT 30 MO DEADLINE
4354.0010000		United States of America	HETEROGENEOUS COLLABORATIVE FILTERING		Frank XU; Perry Raymond COOK; Yifang LIU	62/837,082	04/22/2019					Inactive	• Inactive Provisional - no nonprovisional, per client's email of 3/26/2020
4354.0020000		United States of America	TEMPLATE-BASED EXCERPTING AND RENDERING OF MULTIMEDIA PERFORMANCE		David Adam STEINWEDEL; Jeffrey Christopher SMITH; Ka Yee CHAN; Perry Raymond COOK	16/509,688	07/12/2019		10,726,874	07/28/2020	07/12/2039	Granted	• Issued US Patent • 1st Maintenance Fee due 1/28/2024 • 2nd Maintenance Fee due 1/28/2028 • 3rd Maintenance Fee due 1/28/2032
4354.0020002		United States of America	TEMPLATE-BASED EXCERPTING AND RENDERING OF MULTIMEDIA PERFORMANCE		David Adam STEINWEDEL; Jeffrey Christopher SMITH; Ka Yee CHAN; Perry Raymond COOK	16/939,679	07/27/2020					Pending	• Response to Notice to File Missing Parts and fees filed 3/12/2021; awaiting further action
4354.0020003		United States of America	USER-GENERATED TEMPLATES FOR SEGMENTED MULTIMEDIA PERFORMANCE		Jeffrey Christopher SMITH; Perry Raymond Cook; David Adam Steinwedel	17/221,517	04/02/2021					Pending	• Minor correction to update title of application
4354.002PC01		PCT - Patent Cooperation Treaty	TEMPLATE-BASED EXCERPTING AND RENDERING OF MULTIMEDIA PERFORMANCES		David Adam STEINWEDEL; Jeffrey Christopher SMITH; Ka Yee CHAN; Perry Raymond COOK	PCT/US2020/041589	07/10/2020					Pending	• National Phase (30 month) due 1/22/2022 • Chapter 2 Reply due 5/12/2021 (recommend not filing a reply due to receiving a favorable search report)
4354.003GR00		Greece	DENSIFICATION IN MUSIC SEARCH AND RECOMMENDATION		Cheng-i WANG; David Adam STEINWEDEL; Stefan SULLIVAN; Georgios TZANETAKIS	20210100031	01/14/2021					Pending	• To be abandoned without completing Greek formalities
4354.003PC02		PCT - Patent Cooperation Treaty	DENSIFICATION IN MUSIC SEARCH AND RECOMMENDATION		Cheng-i WANG; David Adam STEINWEDEL; Stefan SULLIVAN; Georgios TZANETAKIS	PCT/US2021/019246	02/23/2021					Pending	• Preparing filing of certified copy of 4354.003GR00
4354.0030001		United States of America	DENSIFICATION IN MUSIC SEARCH AND RECOMMENDATION		Cheng-i WANG; David Adam STEINWEDEL; Stefan SULLIVAN; Georgios TZANETAKIS	17/181,791	02/22/2021					Pending	• File corrected ADS to correct inventor name